

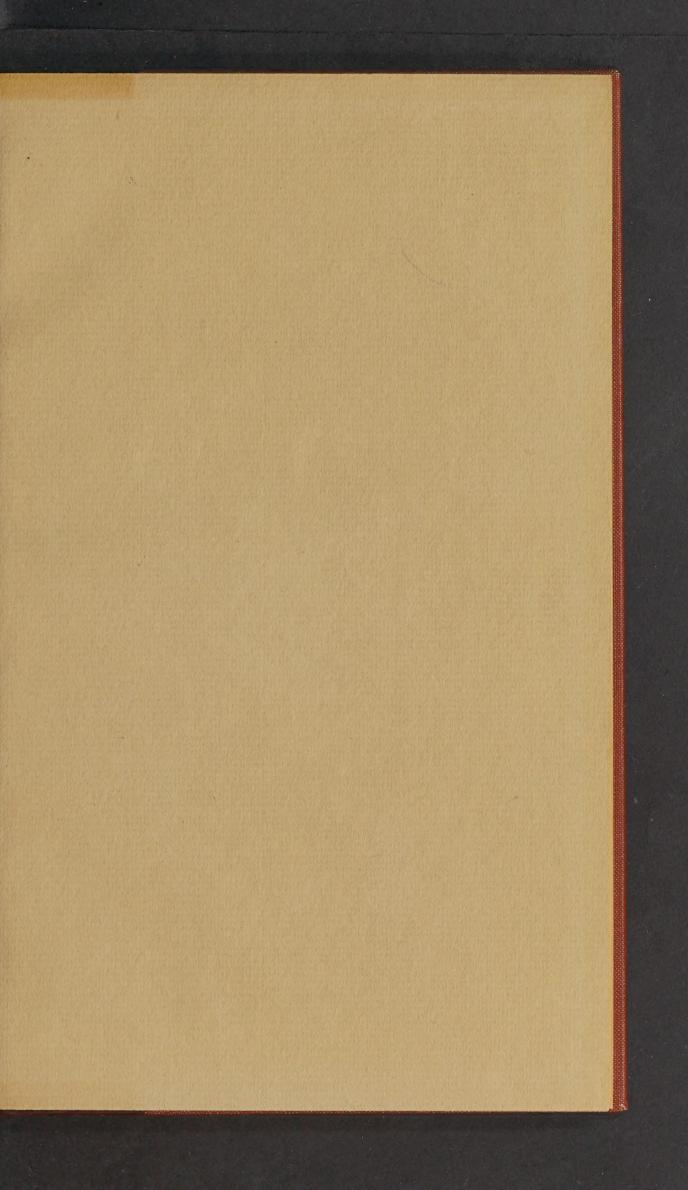
* ORIGINAL STEAM-BOAT SUPPORTED

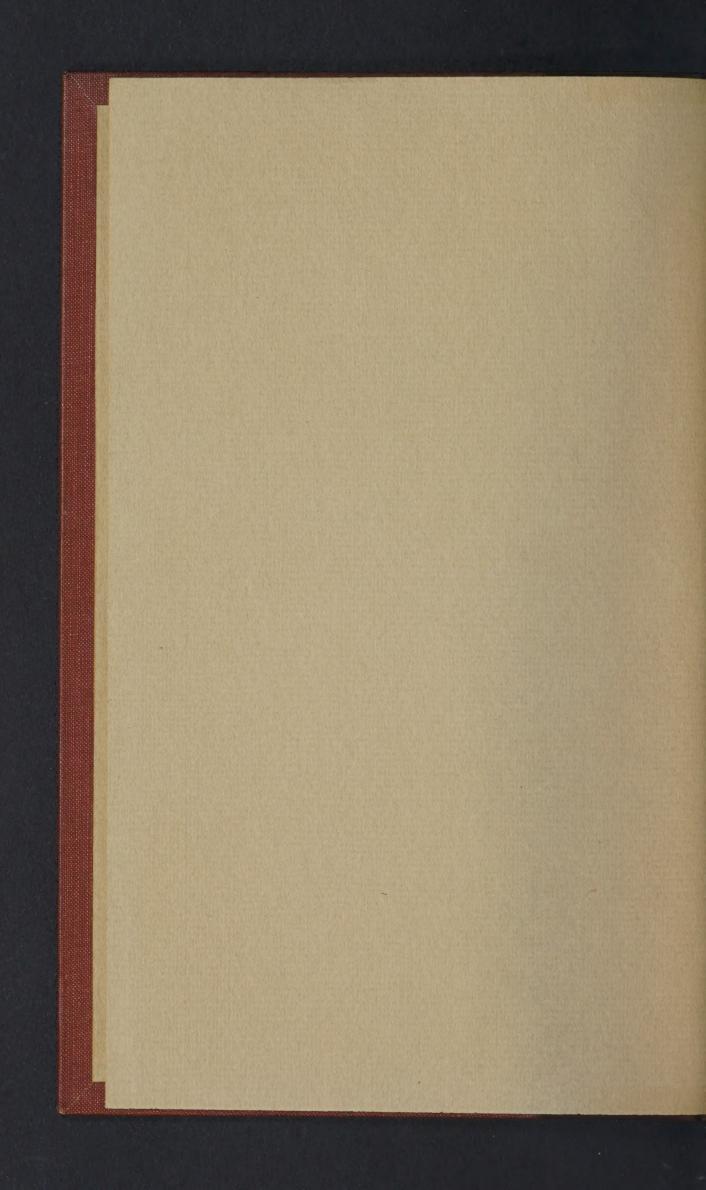




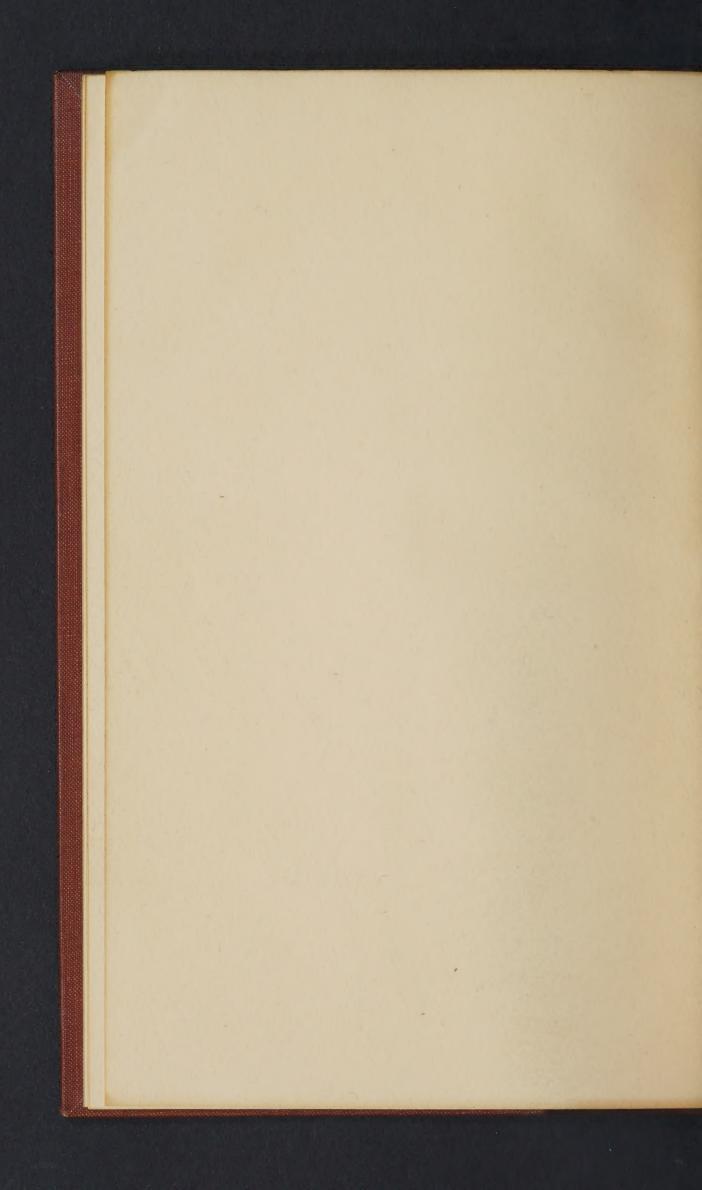


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THE

ORIGINAL STEAM-BOAT

SUPPORTED;

OR,

AREPLY

T O

MR. JAMES RUMSEY'S PAMPHLET.

SHEWING THE

TRUEPRIORITY

OF

JOHN FITCH,

ANDTHE

FALSE DATINGS, &c.

OF ed septimon

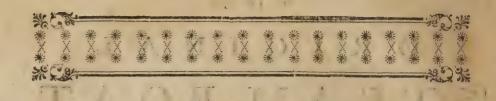
JAMES RUMSEY.



PHILADELPHIA:

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M DCC LXXXVIII.



PREFACE.

pendant Gazetteer, I now present to the Public a reply to the Pamphlet published by Mr. Rumsey, of Virginia,—and as I have no matter to conceal, or disguise, and wish my readers to have a full and fair view of the whole controversy, I have reprinted and annexed Mr. Rumsey's Pamphlet, which will discover to every impartial person who will take the trouble to examine the subject, that he hath no fort of just pretension to the claims he hath exhibited.—His skill in the mechanism of a Steam Engine, may possibly be greater than mine, and in the article of Condensation I freely acknowledge he is my superior, having acquired the art of condensing (with the dash of his pen) one whole year in the compass of six days.

AND A COST OF THE LONG THE STREET

JOHN FITCH.

Philadelphia, 10th. May, 1788.



THE

ORIGINAL

STEAM-BOAT

SUPPORTED, &c.

T is the duty of every man not only to avoid the commission on of a crime, but so to conduct himself through life as to

bear the strictest scrutiny.

In a Pamphlet published by Mr. James Rumsey and lately circulated in this City, as well as probably in other states, I am charged as the perpetrator of crimes attrocious in their nature, but of which my conscience fully acquits me. It is an exercise of malevolence in the extreme thus publicly to prefer charges against an innocent person without previously knowing or enquiring for the desence of the supposed offender, and shews an inability in the accuser to support his charges. Unfortunately for Mr. Rumsey I trust, we are now before an impartial Public, where Justice, unbiassed by party or undue influence, will decide between us—Concious of my conduct, in the prosecution of this business, being that of an honest man, it is incumbent on me to recite the circumstances, and facts relative thereto.

I confess the thought of a Steam Boat, which first struck me by mere accident about the middle of April 1785, * has hitherto been very unfortunate to me; the perplexities and embarrassments through which it has caused me to wade, far exceed any thing, that the common course of life ever presented to my view. After pondering some days on the thought I made a rough draught, but not daring to trust my own opinion too far, I confulted Mr. Daniel Longstreth, the Reverend Nathaniel Irvin and sundry other Gentlemen of Bucks county. Pennsylvania.

fundry other Gentlemen of Bucks county, Pennsylvania.

About the beginning of June, 1785, I went to Philadelphia and shewed it to Dr. Ewing, Mr. Patterson and other respectable characters in the city, from whom I met with no discouragement. In June and July I formed models and in August laid them before Congress, as will appear on their Files. In Sep-

tember I presented them to the Philosophical Society, as per certificate

No. 3.

Philadelphia, 1785.

September 27th. 1785. At a special meeting of the American Philosophical Society:

A Model, accompanied with a drawing and description of a machine for working a boar, against the stream, by means of a Steam Engine, was laid before the society, by John Fitch.

At a meeting of the American Philosophical Society, on December 2d. 1785.

A Copy of the drawing and description of a machine for working a boat against the current, which, some time ago, was laid before the society by Mr. John Fitch, he, this evening, presented to them.

Extract from the Minutes, SAMUEL MAGAW, One of the Secretaries.

In October I called on the ingenious Mr. Henry of Lancafter to take his opinion of my drafts who informed me, that I was not the first person who had thought of applying Steam to vessels, that he had conversed with Mr. Andrew Ellicott as early as the year 1775, and that Mr. Paine, author of Common Sense, had suggested the same thing to him in the winter of 1778, that some time after, he (Mr. Henry) thinking more seriously of the matter, was of opinion it might be easily persected and accordingly made some drafts which he proposed to lay before the Philosophical Society and which he then shewed me, but added as he had neglected to bring them to public view and as I had first published the plan to the world he would lay no claim to the invention. The following I have been favoured with from Mr. Ellicott:

* 4. Baltimore, April 26th, 1782.

I do hereby certify, that early in the year one thousand, seven hundred and seventy sive, Mr. William Henry, of Lancaster, conversed with me on the subject of steam, and intimated that he thought it might be advantageously applied to the Navigation of Boats.

(Signed)

ANDREW ELLICOTT.*

From Lancaster I went to the Assembly of Virginia, first waiting on Governor Johnson of Maryland, who, notwithstanding the letters he has since written in favour of Mr. Rumsey, acknowledged a merit in my invention and that it ought to be encouraged

couraged as will prefently appear. During my journey through Maryland in October, I passed through Frederick Town, and every where published my Plan. In Virginia I waited on his Excellency General Washington, who in the course of conversation informed me, that the thought of applying Steam was not original, that Mr. Rumfey had mentioned Steam to him, but nothing that passed in the conversation with General Washington had the least tendency to convey the idea of Mr. Rumfey's relying on Steam, and General Washington's letter, page 10, in Mr. Rumfey's pamphlet clears up the matter—for the General himself did not conceive any such thing. Knowing that the thought of applying Steam to Boats had been fuggeited by other gentlemen long before, I left his Excellency General Washington with all the elated prospects that an aspiring projector could entertain, not doubting but I should reap the full benefit of the project; for although I found that some had conceived the thought before, yet I was the first that ever exhibited a plan to the public; and was fully convinced that I could not interfere with Mr. Rumfey, otherwise the known candor of General Washington must have pointed out to me such interference. I immediately applied to the Legislature of Virginia for affistance, to execute my plan, who fignified their wish to encourage my defigns, but that the state of their finances prevented it—the then Governor of the state, Patrick Henry, Esq. received from me an obligation with provision that if I procured in that state a sale for one thousand of my Maps of the N. W. part of the United States, at 6/8 each, I should exhibit a Steam Boat on the waters of Virginia, within nine months or forfeit and pay to the state of Virginia, \pounds . 350. as appears by the following certificate.

is better in No. 6.

I certify that John Fitch has left in my hands a bond payable to the Governor for the time being for £350, conditioned for exhibiting his steam Boat when he receives subcriptions for 1000 of his maps, 6/8 each.

November 16th. 1785. (Signed)

P. HENRY.

I then returned to Maryland and acquainted Governor Johnson of my expected affistance in Virginia and that I intended applying to the Assembly of Maryland then sitting, to promote and patronize my scheme—Governor Johnson gave me the following Letter to General Smallwood, the then Governor of the state.

Nº. 7.

SIR, Frederick Town, November 25, 1785. Mr. John Fitch of Bucks county, in Pennsylvania, called on me in his way to Richmond; he has gone through a variety of scenes

in the back country, which has enabled him to collect a knowledge of a great part of the new states, on which and other helps he has made a map ufeful and entertaining, his ingenuity in this way strongly recommends him, but his genius is not confined to this alone, he has fpent much thought on an improvement of the Steam-engine, by which to gain a first power applicable to a variety of uses, amongst others to force vessels forward in any kind of water; if this engine can be simplified, constructed and made to work at a small expence, there is no doubt but it will be very useful in most great works, and amongst them in thip building. Mr. Fitch wants to raife money to make an experiment on Boats, the countenance that he has met with in Virginia he hopes will enable him to do it, he wishes also to make other experiments, and is willing to enter into engagements to apply a large proportion of the fales of his maps, his principle fund. I believe his passion for this improvement will be ample security for his applying the money in that way; -all that I have to request of you Sir, is, that you will give him an opportunity to converse with you, you will foon perceive he is a man of real genius and modefly, your countenancing him will follow of course.

I am Sir, your Excellency's

(Subscribed) THOS JOHNSON.

His Excellency Governor Smallwood.

Mr. Fitch.

From hence it plainly appears that Governor Johnson could not at that time have any idea of my scheme interfering with Mr. Rumsey's, as seems to be now infinuated in that gentleman's

letter to Mr. Rumfey, No. 14 of his Pamphlet.

I attended the felfion of the legislature about three weeks after receiving this letter, and on my petition for affiftance to execute my plan, they made me the following report or nearly in these words, (as may appear by examining their minutes) " However defirous it is for liberal and enlightened legislatures to encourage useful arts, yet the state and condition of our finances are such that there can be no advance of Public money at present." From this report it is proved beyond all doubt that the Assembly of Maryland did not conceive my plan the fame as Mr. Rumfey's-finding that I was undoubtedly the first person in America that could be termed the inventor of a Steam Boat, either agreeable to custom, or equity, I thought it prudent to apply to the different states for the exclusive priviledges for the emoluments of fuch invention, which was granted by New-Jersey in March 1786, by Deleware, New York and Pennsylvania in the winter and spring following, and by Virginia in October 1787.

I have from the time of my first thought pursued my scheme with unremitted application, without a suspicion of an interruption, until the circulation of Mr. Rumsey's invidious Pamphlets, the contents of which I now find it necessary next to take under confideration, not doubting but that the design and tendency of that production will be a sussicient apology for the plain-

ness with which I shall treat it.

Mr. Rumsey says in Page 2, "That in the month of September, 1784, he exhibited the model of a Boat to his Excellency General Washington, at Bath in Berkeley County, calculated for stemming the current of rapid rivers only, constructed on principles very different from (his) present one; fatisfied of the experiment of her making way against a rapid stream by the force ef the stream, the General was pleased to give me a most ample certificate of her efficacy." Here it is to be observed, that no mention was made to General Washington of steam, at the time of fuch exhibition; the principles upon which the Boat was propelled, was entirely unconnected with, and distinct from, steam; being fimply a model, propelled by water wheels, cranks and fetting poles; a mode which was many years ago tried on the river Schuylkill by a Farmer near Reading, but without fuccess. From an exhibition of this plan it was that Mr. Rumsey procured the certificate from General Washington, and on that certificate were Mr. Rumsey's laws founded. In his petitions to the several legislatures, he prayed for no exclusive right, for the use of Steam Boats; neither did he make mention of Steam, to their committees; or even suggest an idea of the kind: as proof of which, I offer the following petition to the Assembly of Pennsylvania, the certificate from General Washington, accompaning it, and the certificate of Manuel Eyre, Efquire, who was one of the committee of Affembly, who reported in Mr. Rumfey's favor.

Nº. 8.

I have feen the model of Mr. Rumsey's Boats constructed to work against streams; examined the powers upon which it acts, been eye witness to an actual experiment, in running water of some rapidity; and give it as my opinion (although I had little faith before) that he has discovered the art of working Boats by mecanism and small manual assistance against rapid currents; that the discovery is of vast importance, may be of the greatest usefulness in our inland navigation and if it succeeds, of which I have no doubt, that the value of it is greatly enhanced by the simplicity of the works, which when seen and explained, may be executed by the most common machanic.

Given under my hand at the Town of Bath, County of Berkeley, in the State of Virginia, this 7th. of September 1784.

No. 9.

To the Honourable the Representatives of the State of Pennsylvania, in General Assembly met.

GENTLEMEN,

Whereas your petitioner has formed a plan for facilitating the navigation of rapid rivers, he therefore doth propose to construct a certain species of Boats of the burthen of ten tons which shall fail or be propelled by the combined influence of certain mechanical powers thereto applied, the distance of between twenty-five and forty miles per day, against the current of a rapid river, notwithstanding the velocity of the water, should move at the rate of five miles per hour and upwards, with the burthen of ten tons on board to be wrought at no greater expence than that of three hands, and as a premium for fo useful an invention, your petitioner prays for an act to pass this honourable house, granting to your petitioner, his heirs and assigns, the sole and exclusive right of constructing, navigating and employing boats constructed upon his new invented-model upon each and every creek, river, bay, inlet and harbour within the limits and jurisdiction of this commonwealth, for and during the term of ten years, fully to be compleated and ended, to be computed from the first day of January next, provided always that the legislature of this commonwealth may at any time within the term aforefaid abolish the exclusive right herein prayed for, by the payment of pounds in gold or filver. And your petitioner, as in duty bound, shall pray. JAMES RUMSEY.

The foregoing is a true copy of the original petition remaining on the files of the General Assembly and read in the house

November 26, 1784.

J. SHALLUS, Aft. Clk.

No. 10.

Philadelphia, the 6th. May, 1788.

This may certify, that I the fubscriber was in Assembly for the year 1784, and was appointed one of the committee to report on Mr. James Rumsey's petition for his Boat to go against the streams of rapid rivers and that there was no mention nor any idea held up to the committee that it was to be propelled by the force of steam.

(Signed)

MANUEL EYRE.

Now I ask whether it does not amount to a possitive proof that Mr. Rumsey had no fort of Reference to, or dependance on Steam. General Washington says, "It is so fimple that it may be executed by the most common mechanic;" which certainly his Excellency

that has cost me two years to understand, and compleat. If we examine the Petition, we shall find, that it confirms the General's idea of simplicity; for Mr. Rumsey says "it may be wrought at no greater expence than that of three hands," plainly indicating, that the expence of fire was not in contemplation; and to put the matter out of all doubt, Mr. Eyre declares, "There was no idea held up to the committee that it was to be propelled

by Steam."

All Mr. Rumfey's laws were obtained, in confequence of his model, shown to General Washington at Bath; which, as I have faid, was nothing but water wheels, cranks and fetting poles; therefore he could have no pretension to the use of Steam, under those laws. With the same propriety, his claim might extend to every power, and every machine in the United States; as foon as any man had invented one that would fuit his purpose. So that upon his plan of law making, no other man would be fafe in expending his money, but all must be swallowed up by his pretendedly ambiguous laws. But I am happy in knowing, that his laws, as well as his claims, cannot interfere with mine; for had he professed any reliance on Steam; or any intention to apply it to his boats, he certainly would not have neglected inferting, fo important a part of the scheme, in his petitions to the different legislatures. Nor would he have prayed to be invested with the exclusive privilege, to use boats, constructed on fuch different principles from those he really intended to pursue. In Mr. Rumsey's act passed in Pennsylvania, it is stiled "The exclusive right of constructing, navigating and employing boats built and to be built on his new invented mode," and this new invented mode (viz. cranks, water wheels and fetting poles) is all he was entitled to under that law. Can it be supposed that the legislatures would not have included Steam in their laws, if they had been informed by Mr. Rumsey that it was his grand dependance; the effential, the vital part of his scheme, as he now pro-That they had no fuch intimation given them, is very evident, from their encouragement to me; and the laws fince passed, are the fullest proofs of the received meaning of Mr. Rumseys petitions, viz. that they had no connection with Steam. And that Mr. Rumsey did not think himself misunderstood, must certainly be granted; because he made no objection to any of my petitions, as interfering with his Laws, which, agreeable to his own declarations, were founded on principles very different from a Steam-boat. That he had no claim to Steam under his laws is evident, from his confession in page 4, line 31, where he fays "I find my idea of Steam was nearly matured before steam had ever entered his head by his confession to Governor Johnson viz. April 1785."—Now can it be supposed Mr. Rumsey had made confiderable improvements on Steam-engines in 1784, or

(1003)

that he had obtained laws fecuring a right to the use of Steam to Boats, when at the time of his petitioning for, and the passing of those laws, he confesses his idea of Steam was not matured.

He fays in page 3, line 1, " In the course of that fall and winter (of 1784) he made progress in some Steam-engines, and page 16, line 7, of Governor Johnson's letter, "I think in October 1785, you told me you relied on Steam for your first power, and wished me to promote your having some cylinders cast at my brother's and my works; the attempt did not fucceed." Speaking of General Washington, the Governor adds " But the General feems to have thought it an immatured idea that he did not imagine you then relyed on" (viz, in November 1784.) last acknowledgements on the part of Mr. Rumsey, must destroy the facts alledged in the first, viz. that " He made progress in Steam-engines in the fall and winter of 1784." For the information given to General Washington in confidence respecting the boat, was fuch that the General "Did not think he then relyed on Steam;" which is fully confirmed, by his making use of the General's certificate to the Assemblies, wherein the discovery is treated as being " enhanced by its simplicity, and may be executed by the most common mechanic" which surely no person

would fay of a Steam-engine.

His application to Governor Johnson for castings for a Steamengine, is infinuated to have been in October or November 1785, which I must deny, and refer to the Governor's own letter for the proof; being confident that no fuch application had been made 1 Now 1965 to that gentleman by Mr. Rumsey, previous to my obtaining the letter of Recommendation to Governor Smallwood. But even had it been true it goes no further back than October or November 1785, which was the very time I was publishing my plan through Pennsylvania, Maryland and Virginia, and was near three months after the time I laid it before Congress-And yet this attempt to have a cylinder cast, at Governor Johnson's works in October or November 1785, is the first essay towards bringing forward a Steam-engine, that is offered in proof, admitting it to have been at the time Governor Johnson supposes, which I cannot allow for reasons I shall presently offer in addition to what I Then how are we to reconcile have already faid on this head. the affertion of Mr. Rumfey's having made confiderable progress in Steam-engines in the "fall or winter of 1784," when it appears his first attempt (by this account) was not made until after October or November 1785 as mentioned by Governor Johnfon's letter, I shall hereafter show, to a demonstration, beyond all possibility of doubt, that this same engine, said to have been compleatly made in Frederick town in December 1785, was not begun until March 1786. On comparing Governor Johnson's letter, fent under my care to General Smallwood, dated November 25th. 1785, (a confiderable time after I first explained to him my mo-

del and acquainted him of my intentions of pursuing the scheme) with his letter to Mr. Rumfey, dated December the 18th, 1787, it must unavoidably call in question the memory or candour of the writer, the latter I most certainly ought to acquit, and should have been happy had I obtained the least explanation on this head, when I lately made a journey to his house; expressly to precure it; possibly it may still be received. If Governor Johnson knew, and believed the legal priority of Mr. Rum'ey's claim, to a Steam-boat, and was entrusted with his secret, how was it possible he could have encouraged a man " of real genius and modefly" (as he was pleased to term me) to proceed on an experiment, which terminate as it would, must inevitably end in ioss and disappointment. For should the experiment fail, which was then thought very doubtful, the small fund, which I should raise by the sale of my maps, must likewise fail; for I was to expend it in Virginia as appears by Governor Henry's certificate page 5. Should the experiment fucceed to the utmost of my wishes, I should suffer more severely, not in my money and time only, but in my reputation; and meet the treatment of a man trespassing on the rights of a fellow citizen, who had a law in his favour. Had Governor Johnson at the time he encouraged me, known the priority of claim to be fairly and justly in Mr. Rumley, had he been then in possession of his secret, or had he believed any title veited in Mr. Rumsey to the exclusive use of Steam, under the law of Maryland, so recently passed in his favor, the Governor certainly would not have requested a gentleman of General Smallwood's rank, to countenance me, not only to trespais on the rights of Mr. Rumfey, but to violate a law, which as Governor of the state he was bound to support. Another circumstance corroborates my affertion of misrelation of facts, as to time.

It will be recollected that Governor Johnson's letter recommending me fo very minutely and warmly to the patronage of Governor Smallwood, was dated 25th. November 1785, and in his letter to Mr. Rumsey, the Governor fays, " In October or November 1785, you told me you relied on Steam for your first power and wished me to promote your having some castings at my brother's and my works; the attempt did not succeed-I considered myself under an obligation to secrefy, 'till in the progress of making copper cylinders in Frederick Town, some time after, when I found that the designed purpose of the cylinder was a Subject of pretty general conversation."-Now the Governor's letter in my favour was dated 25th. November 1785, and the whole machinery is fworn to have been compleated on the 1st. December following, only fix days after the time of my getting this letter of recommendation—and as the cylinder was a fibjed of "pretty general conversation," I could not have been kept in ignorance by the Governor from his "Obligation to secrefy"

because it was no longer a secret at Frederick-town.

The thing was impossible in its nature, that the cylinders and copper works should have been making, and a subject of general conversation, in Frederick-town, on the 25th. day of November 1785, the time I was obtaining my letter of introduction to Governor Smallwood, in that very town; and must have heard it myfelf, if Governor Johnson had been so disingenuous as to conceal it from me; which is abfurd to suppose; for I made my business publicly known in that town, and therefore, if Mr. Rumfey's cylinders were the subject of general conversation, I must have heard it from every quarter; therefore it clearly follows, that the conversation about casting of the cylinders, the obligation of fecrefy, and the general conversation about the defign of the cylinders in Frederick-town, could not have happened in the year 1785.—If Mr. Rumsey had made Governor Johnson his confident "In October or November 1785," it is highly improbable that he would fo far have deceived Mr. Rumsey and me, as to encourage my pursuit of a similar nature, within fo fhort a time as fix days of its being compleated. -And it is equally improbable that Mr. Rumfey should have communicated this fecret and requested his affistance in procuring castings immediately after my being with the Governor, as there was not time for it—the Engine being fworn as I have faid to have been all compleated fix days after that visit—Then the following conclusion may be fafely drawn, that Governor Johnfon did at some subsequent day (so long after as that he forgot the letter he had given me) offer to affist Mr. Rumsey with castings: which not fucceeding, an application was made to coppersmiths in Frederick-town the ensuing spring, who in the course of the fummer 1786, delivered their work to Mr. Rumfey .- About this time it was that the matter became a subject of "general conversation;"-and if winter stopped the putting the whole machinery into motion as fworn to by Messrs. Barns and Morrow, it was the winter of 1786, which is long after my boat was built, and my model of a Steam-engine compleated.—Of this my readers will foon be fully convinced—and a further weighty proof is—that as Mr. Rumfey professes his hurrying on his engine, was on account of my fetting up pretensions, it cannot be believed that he would fuffer my petition to lay before the affembly of Maryland, and be reported on in my favour about the 20th. December 1785, nineteen days after he fays his boat and Engine were finished-Mr. Foy the member from Frederick-town must have told the tale, and laid in a claim for his countryman, but I repeat it again, that I was in that very Frederick-town on my way to the Affembly in the fall of 1785, every where publishing my scheme, and no Engine was began there during that year, nor until March following, as will be fully shown—but before I come to my proofs I wish to confute him out of his own writings. Let

Let me pursue his explanation still further, and ask, what could be the use of secresy in this business, if Mr. Rumsey, as he alledges, was secured in the use of the invention by law? Could he expect any countenance from the public, for a scheme wrapped up in secresy and which is confessed by Governor Johnson to have remained until after I had published my plan, both in Maryland and Virginia—Mr. Rumsey and his confidential friends might have died, and then no advantage could have arisen to the community; and until such advantage was publicly imparted, certainly nothing could be expected from the public.

In page 16 he inferts part of a letter from general Washington in answer to his of the 10th. March 1785: "It gives me much pleasure to find by your letter, that you are not less fanguine in your boat project, than when I saw you at Richmond, and that you have made fuch further discoveries as will render them more extensively useful than was at first expected"—but still it is plain that the General only alluded to the fetting pole plan, for in his answer to Governor Johnson (even after my petition was before the Assembly of Maryland) he still thought that Mr. Rumfey had "No reliance on Steam"—The General's saying that he thought Mr, Rumfey's idea of steam was "Immature" in November 1784 (the time they were at Richmond,) is a proof that Mr. Rumfey's "Being not less sanguine" must have alluded to his fetting pole scheme, because no man can be faid to be fanguine in any thing of which he has but "An immatured idea;" and "Further discoveries" will not apply to Steam, because seam could be no new discovery, and was mentioned to the General at Richmond: nor is any thing mentioned of Steam in the General's Letter, at least in the extract. It is reasonable to suppose, if Steam had been the dependable discovery, it would have been treated on more largely, and have produced a more pointed answer; the truth is, Mr. Rumsey placed no dependance on Steam, until my plan came forward, and his own had failed; conscious of the weakness of his claim, and the futility of his arguments to support it, he found that something more was necessary than merely an "Immatured idea;" therefore to add weight to his plea, he endeavours to establish himself under the solemnity of oaths, and attempts to prove, that the machinery for his Steam-engine, was executed in Baltimore and Frederick-town, so as to be compleated and put together on the 1st. of December 1785. These solemn and positive declarations are contained in the depositions of Charles Morrow and Joseph Barns (No. 11 and 12 of his pamphlet) who are probably interested in the scheme. The reader will please to examine these depositions; they are produced to support facts, which he is conscious ought to have existed at the time they specify, otherwise his pretensions would consequently fall. witnesses testify to absolute facts, and yet affix different periods

of time for one and the same transaction. Page 13, line 14, of Charles Morrow's deposition, he says " About the Brit of December (1785) it appears to the faid Charles that the whole of the machinery was ready to be fixed to the boat which came down to the falls of Shanandoah for experiment; but the ice then commencing prevented it for the winter:" and line 28 of the fame deposition he says, "In the spring of 1786, the machinery was put on the boat and the first trial made, said Charles being on board." Page 15, line 11, of Joseph Barns's deposition he says, "In December (1785) it was put on the boat at Shanandoah falls," these different declarations, or different times affixed, at which the machinery was put on the boat, of themselves tend much to destroy the validity of their oaths; for the time the machinery was put on board, must have been a fact, so notorious, that it could not admit of a miltake, in a mind properly impressed with the importance of an oath. In page 10 & 11 William Aikew swears that Mr. Rumsey's machinery will not weigh more than eight hundred pounds, and that he is well convinced it may be made for £ 20. It is a well know fact that of Mr. Rumsey's machinery, the greatest part, must consist of copper or brass, such as cylinders, tubes, cocks and valves, together with curious wrought iron; now 800 pounds (were it all made of Iron) could not cost less than double the sum. As this evidence is not brought to prove any thing about Mr. Rumsey's priority it is of no importance, and the absurdity it contains might have been spared. Whether his machine or my machine are best, is nothing to the purpose; I have been daily altering, and never watched his motions and blunders, as it is evident he did mine. He, it feems made a fecret of his doings, whilst mine were open to all the world.

It is proper I should not pass over this part of my work, without acknowledging, that I have been greatly indebted to the affistance of my ingenious friend Mr. Henry Voight of this city; who has uniformly, from my first undertaking to build a boat, af forded me valuable hints; and has united with me in perfectir ig my plans. To his inventive genius alone, I am indebted for the improvement in our mode of creating iteam; a thought which struck him above two years ago, the drawing having been shewn to several persons; for we never made a secret of any part of our works; but a fear of departing from old establif and plans, made me fearful of adopting it, until I had found by his invention of creating fleam, that a condenfor might be constructed on the same principles, (viz. a spiral pipe or worm) only by reverfing the agent, for the best way of applying fire to eva porate water into steam, must also be the best way of applying cold water to condense steam, that is, the bringing the greate if quantity of fire into action upon the greatest surface of water .- or the contrary -- And we had an additional inducement to tudy this fubject, because the common way of fixing boilers, required so great a load of brick work, that it overloaded our boat. Therefore, the first thought that must occur to every man, attempting to raise steam on board a boat, must be to acquire that method which would require the least weight.—Since Mr. Rumsey has been in town I have been told, that he says I have got his mode of creating steam; whether that be the case or not (or whether he has got mine) I do not at present know. But as both Mr. Rumsey and Mr. Voight laid their drawings and plans before the Philosophical Society the same day, it vill appear how far they are alike. And Mr. Voight made a prior entry of his plans in the Prothonotary's office, in this city. If there should happen to be any similarity between them, it would be nothing surprizing; having the same load on both their minds, they both sought relief; and, as sick persons, lacking a doctor, chance might have led them to the same man; and I had an undoubted right to apply every medicine that suited the

diforder-but I will proceed with the pamphlet.-

In Page 17, Henry Bedinger fays, that Mr. James Rumfey informed him in or before the month of March, 1784, that he intended to give trial to a steam boat, and he believes he mentioned fuch intention of Mr. Rumfey's in Kentuckey; which feems to have been a breach of honour, as it must be supposed Mr. Rumsey gave it to him in considence; for he treated his idea of Steam as a secret to Governor Johnson long after: thus on the diclosure of this friend, Mr. Rumsey builds a charge against me, as having filched his scheme in Kentuckey; this like his other charges is founded in falsehood, for it is a well known fact, that I have not been in Kentuckey since the year 1781. The depolitions of George Rootes, No. 8, and Nicholas Orrick, No. 10, testifying to his having informed them, in the year 1784, of his projecting a steam boat is quite useless for reasons already given. Meifrs. Henry and Paine projected it before him; and if bare projection was sufficient to build a claim on, I have no doubt but there are people now in their graves, whose heirs might set up more early claims than either of us. If Mr. Rumsey was in 1784. projecting a boat to work by steam, with a view of carrying it into actual execution, why did he not apply for the use of steam in his laws? the reason is plain, -General Washington gives it for him, it was "an immatured idea and on which he thought he did not rely." I must therefore contend that these depositions, lose their weight, and the whole of his conduct proves to a demonstration, that he could not have been engaged in making fream engines at the time mentioned by those witnesses, with a view of applying them to his boat. In page 20, No. 18, he inferts a paragraph of a letter faid to have been written by a Mr. Daniel Buckley, near Philadelphia, by which he fixes the time of his applying himfelf to the " perfecting his feam engine with much ardor." In part

of said inserted extract, speaking of me, he stiles me " a Mr. Fitch of Philadelphia;" now this letter, if the facts it recites are true, must have been written after the 17th. of April, 1786, and not in 1785, as infinuated by Mr. Rumsey, for I was not an inhabitant of Philadelphia till after that period; nor did I ever hear that Mr. Rumfey was employed in making a fleam boat until long after that time; confequently I could not have used any expressions about it until after April, 1786. This is a very important part of the prevarication, and carrying the air of great plausibility, I muit beg my Reader's close attention to it, as I shall prove it to be false. Page 3, he says, "I wrote to General Washington the 10th. March, 1785, that I intended applying both powers (meaning steam as one) to build a boat after the model of one he faw at Bath, &c. and as I could gain truth only by fuccessive experiments, incredible delays were produced, &c. I bore the pelting of ignorance and ill-nature with all refignation, until I was informed some dark affassins had endeavoured to wound the reputation of his Excellency, and the other gentlemen, who faw my exhibition at Bath, for giving me a certificate. The reflections upon these worthy gentlemen gave me inexpressible uneafiness, and I should certainly have quitted my steam engines, though in great forwardness, and have produced the boat, for which I had obtained the certificate, for their justification and my own, had not a Mr. Fitch came out at this critical minute, with his steam-boat; afferting that he was the first inventor of steam, and that I had gotten what small knowledge I had from him, &c." Now this embarrassment being confessedly subsequent to the letter to General Washington, just mentioned, viz. 10th. March, 1785. The letter afferted to have been written by Mr. Buckley is incontrovertibly fixed between this date and the 1st. of December following, the time fworn to for compleating of the steam engine; therefore, as Mr. Rumsey quitted his setting pole scheme and " pursued the perfecting his steam engines with encreased ardor (page 3) on the reciept of this letter; it becomes of moment to ascertain its exact date; and I shall shew that this letter which set Messrs. Rumsey and Barns to work in such haste and with fuch "encreased ardor" was not written until near a year after the time it is pretended, and the copper works faid to have been made in 1785 were not begun until 1786—so that this machinery completed fo brifkly and fworn to have been on board in December 1785 has made a jump of just twelve months, in order to persuade the public into a belief that Mr. Rumsey's works were begun time enough to supplant mine. - " At that critical minute" fays he, " Came out a Mr. Fitch afferting I had got what small knowledge I had from him"-At what critical minute I ask?-Mr. Rumsey's third page will tell us-In March 1785, he informed General Washington by letter that he intended applying steam to boats; in December following, Messrs. Barns

and Morrow fwear the boat was ready; and his exhibiting this boat, he confesses was hurried on by the intelligence received from Mr. Buckley; confequently this work and this " Encreased ardor" was *subsequent* to the date of the letter from Mr. Buckley. Then if I can fix the time of Mr. Buckley's writing the letter, I shall establish a certain fixed period at which Mr. Rumsey acknowledges his works were not on board his boat. And I felicitate myself in being able to do it so incontestibly as to prove from his own writings that he has given false dates and assigned false reasons for his movements. He knew at the time of inserting that quibling account, that it would not bear the light, and therefore did not dare to give the date of Mr. Buckley's letter, wrote at that "Critical minute," for Mr. Buckley's letter would have shewn that this "Critical minute" was not in 1785, when they fwear the steam-boat was ready, but in the Summer of 1786, full twelve months after I had made my plans public, and was procuring patterns for my present cylinder, and had made a complete model of a steam-engine in brass and iron.— I have been at the pains of walking 66 miles to Pequa and Lancafter to fee Mr. Buckley, that I might obtain an additional proof (to the many others I shall produce) that Mr. Rumsey has transposed the order of time and antedated facts. Mr. Buckley frankly told me all he knew of the matter and fixed the time of writing his letter, so circumstantially, to have been in 1786 and not in 1785, that not a doubt can remain—and it will further appear from the certificate he has given me that the colouring as to fact, as well as to date, has been grossly disingenuous, as will be feen on comparing his certificate, No. 18, with the following:

No. II.

This may certify, that the paragraph that Mr. James Rumfey has copied from my letter, which he applies to the injury of Mr. John Fitch's character, was not told to me by Mr. Fitch, but by other persons, who for reasons were convinced of his priority of invention. And as to the time of writing the letter it was when Mr. Samuel Briggs was making patterns for Mr. Fitch's castings. As witness my hand this twelfth day of May, 1788.

DANIEL BUCKLEY.

On my return to Philadelphia I applied to Mr. Briggs in order to ascertain the *Time of his making my patterns*, and he freely gave me the following certificate:

Nº. 12.

This may certify whom it may concern, That in the Summer of 1786, I performed some turning work for John Fitch, being patterns for castings for his steam-boat, and before that time I made no work for the said John Fitch;—That I am acquainted

with Daniel Buckley and faw him at my shop during that summer and at fundry times fince, and we have frequently converted about James Rumfey, but the particulars of any conversation with him I do not recollect.

SAMUEL BRIGGS.

Affirmed the 15th. May, 1788, that the foregoing is just and true, before

PLUNKT. FLEESON.

Thus, independant of all other proofs, have I brought a conclusive evidence out of Mr. Rumsey's own writings and from his own testimonies, that the steam machinery fworn to have been on board in December, 1785, could not have been ready until December, 1786; and here I might safely rest my defence, and very properly quote Mr. Rumsey's own words (annexed to this certificate, No. 18.) viz. "Should he incline to affert hereafter, what credit he will deferve, has been so clearly proved, that future impositions may be avoided, and those who spread a flander they do not believe, deserve the contempt of all honest men."

But I will proceed, and must not omit remarking, that The this fact page of his work is very fatal to him. He fays, "I should certainly have quitted my steam-engines (engines only in idea) though in great forwardness, and have produced the boot for which I had obtained the certificate, Gc. had not a Mr. Fitch come out at this critical minute with his steam-boat, &c." And further adds, "Had I exhibited my first boat it would have been construed into an acknowledgement of Mr. Fitch's affertion, by producing a boat with which steam had nothing to do; these confiderations compelled me to pursue the perfecting my steamengines, with increased ardor."-Thus I have a proof from himself, that the certificates from General Washington, &c. (which procured his laws in Virginia, Maryland and Pennfylvania) had no reference to steam-consequently my laws for the exclufive use of steam applied to boats, cannot interfere either with his laws, or his expectations at the time of asking for them. I applied to the feveral legislatures openly and unguardedly, without friends and without patrons; and from the pure merit of my pretentions, met with fuccess, without a whisper being breathed, that I was interfering with Mr. Rumfey. I am confident that he never conceived me to be a rival in navigating boats, until he found his own plan hopeless and mine likely to succeed.

> In his third page he fays, "I wrote to General Washington 10th. March 1785, that I intended applying both powers to a boat built after the model of the one he faw at Bath; but the difadvantages before mentioned still remained and as I could gain truth only by fuccessive experiments, incredible delays were produc-

ed-and though my distresses were greatly increased thereby, &c."-It is truly amazing that though he had long before this letter, been making progress in Steam-engines, and gaining truth by fuccessive experiments, and incredible delays, infomuch that at the time of his proposing to get cylinders cast at Governor Johnson's works in October 1785, he had the principal part of his work untouched: I fay it is amazing, that these incredible delays thould all vanish as in an instant, and that between the time of his failing at Governor Johnson's works, in October or November 1785, and the 1st. of December following, he should have completed his whole machinery, ready to be put on board. -A Steam-engine is a complex piece of work, and his tubiequent transactions shew that he found it so; for it has taken him from the fummer of 1786 (when, he removed his works from Frederick-town) to the winter of 1787 to make them ready for a fair experiment. No person therefore can be brought to believe, that his first machinery could have been conjured together in little more than 30 days.—No fuch thing happened—I have already fufficient proof to the contrary, and have no doubt but a multitude of corroborating witnesses will voluntarily offer themselves, when this pamphlet gets down to Frederick-town and Shepherds town, where I shall take some pains to have it circulated.—It is truth alone I am in fearch of, in order to wipe off the imputations from my own character; for as to stability of title to my exclusive rights, I shall not cast away an anxious thought about it—I am fecured by my laws—and my "coadjutors," as Mr. Rumsey is pleased to term them, I am sure have no fort of apprehension about the monies they have risqued; and only wish that I should remove any aspersions that may be unjustly cast upon me-Thus far it may be faid they have an interest in my success, because a law in my favour in Maryland is yet

I must not yet quit the subject of Mr. Buckley's letter in his from whence it is plainly to be gathered, that subfequent to his letter of 10th. March 1785, to General Washington he meant to tell the world he was bufily employed in private experiments on Steam-Engines, and that although his first setting pole boat "Bore the pelting of ignorance and ill-nature," yet he did not fet about making a Steam-engine, for this boat, until (as he calls it) the critical moment when a Mr. Fitch with his Steamengine came out, afferting that he was the first inventor of Steam, and that "I had gotten what small knowledge I had from him." -Now as all his experiments were privately conducted, and he does not pretend to have begun his boat engine, until Mr. Buckley had fent notice that I charged him with stealing knowledge from me; I would ask any man where I was to obtain the grounds for my charge? it could not be until I had begun my own engine, and made it every where public—then it follows that my pretended

ended complaint against him must have been subsequent to my own works and prior to the beginning of his works for his boat in November (as he calls it) which from his own statement has laid a fair and just foundation for my claim of public priority, for private priority is out of the question, as Mr. Henry, Mr.

Ellicott and Mr. Paine are before us both.

Nay, even after the real Steam-engine for his boat was actually begun, we find it kept as the most profound fecret; and from Charles Morrow's deposition it is declared, that the boat came Shepherds-town early in the fall that Mr. Barns went to Baltimore shortly after to have some machinery cast; and on his return from Baltimore was fent to Frederick-town in order to have fome other things made (which could not confiftently with Governor Johnson's letter be earlier than the beginning of November) and about the middle of November they were all finished viz. a boiler, two cylinders, pumps, pipes, &c .- I confess this is very brisk work for a country town-more than ever I could get

in the city of Philadelphia.

At Baltimore four large cocks were befpoke by Mr. Barns and the brass-founder was told they were for the warm springs of Virginia as will prefently appear; Governor Johnson was entrusted with the scheme in confidence, and the copper works were carried on in Frederick-town with great fecrefy-infomuch that a citizen hearing it rumored that they were for a Steam-engine, applied to fee them, but was refused (as will be shewn) and the matter still remained a secret until, as Governor Johnson says, "The designed purpose of the cylinder was a subject of pretty general conversation in Frederick-town"-Then during this interval of privacy, furely any man that should have conceived the fame idea and brought it forward to public view, ought to be entitled to the right and advantages of the discovery-For all these confidential persons, as I have already said, might have died, and the world have lost the benefit-Let me consider the danger of admitting this new doctrine of claims-A man makes a valuable discovery -he pursues it at a great expence and publishes it to the world—a sett of men combining together shall afterwards come forth, fwear for each other, that they had been making the fame kind of engine, many months before, and bring proofs from respectable characters, that they had hinted at the practicability of fuch a scheme, even before their private experiments. Will any man of the least particle of understanding allow, that this private work shall be admitted to contain sufficient evidence to overfet the public works of a fair and open artist? Surely not -If it was once allowed, men would not be wanting to fwear away from the real inventor, the most valuable discoveries in the world .- All they would defire from the public claimant, would be, for him to fix the earliest date to his discovery, and if it was 20 or even 50 years back they would prove that they themselves, their

their fathers or grandfathers, or some distant friend, had communicated it many years before.—There is no end to this kind of proof; and both reason and law unite in defending the first public discoverer.—It would be dangerous in the highest degree to deviate from this rule.—If Mr. Rumfey did really in good faith and conscience intend to carry into execution, the secret he communicated to General Washington, I can only say he was unlucky in delaying it follong, as to let me, with my fubfequent discoveries, come forward before him; what I did was public-it was notorious to all Virginia and Maryland, and not a murmur was raised against me, not a syllable uttered (that I ever heard) charging me with interfering with Mr. Rumsey .- The Assemblies of Virginia and Maryland encouraged my scheme, and nobody told me I should interfere with him.-My petitions laid long before the Assembly of Virginia, and a law was ultimately passed in my favour, without objection or complaint. Mr. Rumfey has infinuated that I got my first thought from Captain Bedinger in Kentuckey, who went there in 1784—nay he goes fo far in one place, as to fay, he "Was told fo" and in another that "Circumstances leave little room to doubt it." I have already declared that I have not been in Kentuckey fince the year 1781: thus falls to the ground, this part of his "Plagiarism" allegations .- But I will fuggest to him, that it is much more probable, that all his determinations of beginning his Steam-engine, might have come to him in a much straighter line, than from Kentuckey to me. Captain Bedinger is so uncertain about the matter of his ever having mentioned fleam in Kentuckey, that he only fays, coldly, that he "believes" he also mentioned "that it worked by steam." I will remind Mr. Rumsey, that I not only believe that I presented my plan to Congress, before the time he pretends to have spoken to Governor Johnson about getting cylinders for him, and before his copper works were bespoke, but the Files of Congress will prove, that in August, 1785, laid my plan before them; and nobody will suppose it was a very indirect road from Congress to each of the United States. A very few days after my plan was laid before them, Mr. Rumfey might have been furnished with a copy of it: and if any member of Congress should know of such a transaction (certainly very innocent in itself) he will confer a great obligation on me by communicating it .- But in Philadelphia it was public before it went to Congress, and long before Mr. Rumsey's orders went to Frederick Town or Baltimore. I have a fair right to suppose all these things, and Mr. Rumsey's giving me no opposition in my application for exclusive laws, and even permitting his law to expire in Pennsylvania, without trying to derive any benefit from it, amount to positive proof that he had no serious thoughts about applying steam until it was too late.—I promise him I shall not be so dilatory in exhibiting my boats in Virginia, conformably to my law. I trust to the goodness of my cause and the honor and generosity of my country,—and that I not only have a substantial right by exclusive laws, but by justice and equity.

The affidavits from William Askew, No. 6, and Henry Bedinger, No. 7, to prove that Mr. Rumley's boat is much superior to mine, is acknowledging on the part of Mr. Rumsey, that his pretenfions to the invention are but weakly founded. However faulty my works might be, and however perfect his own, it would have no force in the determination of our title to the invention; but argues a wish in him to gain an advantage on principles different from those on which our dispute must be ultimately decided in the opinion of the world.—But even this position of Mr. Rumfey's I will not allow: for on a comparison of the velocity and bulk of both boats and the force applied, it is evident that mine exceeded in the proportion of more than two to one. I had a bulk of water to remove equal to above 12 tons, whilf he had to contend with no more than 3 tons, if I am rightly informed; and our cylinders (or moving powers) were nearly, if not quite, equal: yet my boat was urged forward with nearly the same velocity of his boat; therefore, his mode hath hitherto no superiority. As to his drawing water in at the bottom, and pulling it out at the stern of a vessel, it is no new invention, but was long before prefented to the Philosophical Society at Philadelphia. The thought came originally from France, of which I was acquainted before he bespoke any of his works for steam, and contended the right of using it with Mr. Arthur Donaldson, in the beginning of 1786, before the Assembly of Pennsylvania, as he attempted, at that time, to assume the discovery to himself.

Nº, 13.

I well remember when Mr. Arthur Donaldson proposed before the committee of Assembly, a method of navigating boats by a stream of water forced through by means of a steam engine; that you appeared to be acquainted with the principle, which was said to be originally Dr. Franklin's, and that you then declared it had been your intention to have made an experiment upon it, GEO. CLYMER.

Mr. John Fitch.

May 17, 1788.

In fpite of all opposition I was left in full possession of that or any other way I chose, provided I worked by steam, and no man can take it from me until my laws expire. I conceive we have by no means come to the greatest perfection of applying our power. I am now trying an experiment, and the machine is nearly finished, to propel a boat not by expelling water, but air, and hope Mr. Rumsey will allow that this is a mode peculiar to myself;

myfelf; but if he pleases he will deny it and affert that he had privately tried some experiments to affertain its practicability—I further hope that the public will make great allowances for my not being more forward in my plans, especially when they consider the great difficulty of procuring proper workmen, together with the new and unexplored ground that I had to travel over, but hope shortly that I shall have it so perfect as to give full satisfaction of its utility.

In Page 5, he afferts, that my boat will not be propelled at the rate of more than three miles per hour when no tide opposes: this affertion, I believe, will shortly be proved both rash and envious: I can make her go not only three, but three times

three.

But as I have before mentioned, this is taking up the dispute upon different principles, than those Mr. Rumsey found necessary to hold up to public view, viz. That he was the inventor of the steam-boat.—This leads me to consider the principles on which exclusive privileges are founded, agreeably to justice and policy. If we have recourse to the enlightened nations of Europe, and more especially to England, whose laws respecting the title to property are (with little and in some cases with no variation) in force among us, we shall find that their laws imply that no species of property ought to be held more facred than the property of inventions: for having their origin in the imagination of man, uncertain in their operations, and expensively perplexing in experiment, it becomes necessary to have some mode established to secure to the owner the full benefit of his invention, which might otherwife prove his ruin. To prevent which, justice and good policy have pointed out a remedy, and custom has established it on a permanent basis.—The inventor can claim no benefit from his thoughts or inventions, before he makes a public declaration of fuch invention in some place of record established for fuch purposes,—that is—he who invented and published a Steam-Engine will have an exclusive right for a certain number of years for all steam-engines: at the expiration of which, each improver has an undoubted right to the benefit of any improvement. On these principles he who first invented and published the idea of a steam-boat, invests himself with a fair and just title to all steam-boats for a certain time, which in justice and policy government is bound to support.—The state of Pennsylvania hath given her fentiments on this head, and hath declared fuch to have been her explanation of the title to inventions by rejecting Mr. Arthur Donaldson's petition to have me confined to a certain mode of applying my power.—It was not the mode of using the force of steam which had any merit in this invention; but, it was the idea of connecting fream with navigation, that justly claimed the public patronage as foon as that idea was made public, and the benefit of it applied for.

I shall now introduce the proofs I have promised, and show to the world what degree of credit and countenance ought to be given to a man, who in order to deprive me of my just rights, has brought forward evidences to fwear to facts which are totally false—You will see that transactions are antedated and a deception intended, with a view both of difgracing and robbing me-Confident that gross misrepresentations had been made use of, I was at the expence and trouble of two journeys to Fredericktown in Maryland, the scene of his operations, and there I was foon confirmed in my fuspicions that this plausible pamphlet was built on falsehood, and that the patrons whom Mr. Rumsey's address has procured him in this city, have committed themselves too unrefervedly to a stranger. I now find the reason of his so long delaying to put in his claim—it was that a period might elapse sufficient for memory to be uncertain, and for facts to be transposed in the order of time; the death of one of his principal workmen also rendered it probable that some of his pretended proofs might be difficult to detect. A love of justice has induced a number of persons to step forward and testify in the most unequivocal manner that the works fworn by Mr. Rumfey's evidences to have been finished the 1st. December, 1785, were not begun until March following, when he must have been very fully possessed of a knowledge of my pretensions.

The ten following certificates will prove fully the antedating. The affidavit of Frederick Tombough, Smith and partner of Mr. Zimmer, the Copper-smith in Frederick Town who made

the copper work for Mr. Rumsey's steam-boat.

Nº. 14.

Maryland, Frederick County, April 18th. 1788. Then appeared before the fubscriber, a justice for said state and county. Frederick Tombough, aged about thirty-nine years, who being sworn on the holy Evangelists of Almighty God, deposeth and sayeth, that some time in March 1786, he, this deponent was in partnership with Matthias Zimmers, now deceased, in a black-smith's shop, adjoining said Zimmers' copper-smith's shop—and that he remembers two copper pipes being brought into his shop by said Zimmers to fix the seams—which pipes he was told were for Mr. Rumsey's Steam boat—and surther that he knew of no work being done in Mr. Zimmers' shop on account of said boat previous to the time above mentioned.

Sworn before

GEORGE SCOTT.

The certificate of Mrs. Zimmers, widow of Mr. Zimmers, which is corroborated, and the time established, by the next certificate:

No. 15.

Nº. 15.

This may certify, that I the subscriber, wife to the late Matthias Zimmers, deceased, have no accounts in my books so as to affertain the time of Mr. Rumsey's bespeaking his machinery for his Steam-boat, or as to the time of his taking it away—but that Michael Baltzel turned works to finish the first machinery said Rumsey had of my husband according to the best of my knowledge.—As witness my hand, this 29th. April, 1788.

ELIZABETH ZIMMERS.

The certificate of Michael Baltzel, Turner, which establishes the time of Mrs. Zimmers' fact.

Nº. 16.

Frederick-town, 17th. April, 1788.

This may certify that I the fubscriber turned works for Mr. James Rumsey of Virginia, for his Steam-boat viz. a round piece of wood about 8 inches diameter and about 4 feet long, &c. to round his copper works upon—said turning was done in March 1786. As witness my hand

MICHAEL BALTZEL.

The certificate of Mr. Jonathan Morris, inn-keeper, which confirms the affertion in Governor Johnson's letter, that the "Designed purpose of the cylinders was a subject of pretty general conversation" in Frederick Town, and therefore had it been prior to my petition to the affembly of Maryland the middle of December, 1785, Mr. Foy, the member of assembly re-fident in that town must have known it, and the house have received information from him, when probably they might have affigned other reasons for rejecting my petition than mere bareness of finances. If all the machinery was ready to put on board, as Mr. Morrow swears, on the 1st. December, it must have been a fact notorious to the whole town; but the following declaration shows that so far from being on board in December, 1785, it was thut up as a fecret even so late as the latter end of March following; fo that this " pretty general conversation," which Governor Johnson speaks of, could not have happened until about this time, and all the evidences I produce confirm my affertion, that Mr. Rumfey did not begin his steam-engine, until I had published my plan all through Maryland and Virginia.—The certificate is as follows:

Nº. 17.

This may certify that I the subscriber was towards the latter

end of March 1786, informed that Mr. Matthias Zimmers had D begun

begun fome machinery for Mr. Rumsey's Steam boat—Accordingly I called on Mr. Zimmers to see it, but was refused the sight of it, as it was then retained as Mr. Rumsey's secret—but was informed that it was begun in the beginning of the same month, this I declare to be the truth as near as I can recollect—As witness my hand

JONATHAN MORRIS.

The deposition of John Peters, who performed such parts of Mr. Rumsey's machinery as were made of tin.

No. 18.

Frederick County, Maryland, April 18th. 1788.

I the subscriber was a journeyman and worked for Mr. Matthias Zimmers—and began to work, in the tin business, at the same time Mr. Zimmers did begin the copper works for Mr. James Rumsey, of Virginia, for his Steam boat, which said coppers and tin works were begun in March, in the year 1786.

JOHN PETERS.

Sworn before me, JACOB YOUNG, one of the justices for Frederick county, Maryland.

The deposition of John Frymiller, who was apprentice to Mr. Zimmers at the time he made the copper works for the steamengine, shewing not only that the works were begun and finished in a shop next to Mr. Tombough; but that no part of said machinery was begun before the spring, 1786.

No. 19.

State of Maryland, Baltimore County.

On this twenty-fixth day of April, in the year of our Lord one thousand seven hundred and eighty eight, before me the subscriber one of the justices of the peace for the county aforesaid, personally appeared John Frymiller of Baltimore town in faid county, and made oath on the holy Evangelists of Almighty God, that during the time he was an apprentice to the late Mr. Matthias Zimmers of Frederick-town, in Frederick county and state aforefaid, deceafed, when he the faid Matthias Zimmer made Mr. James Rumsey's machinery for the Steam-boat—That he, this deponent, did work at the faid James Rumfey's machinery—That it was begun in the spring of the year 1786, and that no part of faid machinery was begun before the time above-mentioned by the faid Zimmers, to the best of his knowledge—and further, that the faid machinery was begun and finished in a shop adjoining Frederick Tombough's fmith-shop, (which faid Tombough was, as the deponent has been informed, in partnership in the smith's business.

business at said time with said Zimmers) in which said Matthias Zimmers had his copper-smith's fires for brazing &c. and further this deponent saith not.

Sworn before me

JOHN MOALE.

The following certificate proves that Mr. Rumsey's machinery was made by Mr. Zimmers, in Frederick Town, in the spring of 1786, their being but two Copper-smiths in Frederick Town, viz. Messrs. Matthias Zimmers and Joshua Minshall, the certifier.

Nº. 20.

This may certify, that I the subscriber, copper-smith, have resided in this town about three years, during which time there has no copper-smiths resided in the town except Mr. Matthias Zimmers and myself and that I was knowing to Mr. Zimmers making copper works for Mr. Rumsey's Steam boat, and am of opinion it was late in the spring or summer before said Rumsey took said works from Mr. Zimmers in the year 1786. As witness my hand, 29th. April 1788, at Frederick-town, Maryland.

JOSHUA MINSHALL.

The foregoing testimonies, I presume, will carry full conviction that Mr. Rumsey has shifted his dates, and has got two of his workmen to fwear to it-for Messrs. Barns and Morrow, if they had confulted their accounts, must have found that they had made a lapse of a whole year at least, and that the December, 1785, which they speak of must have been December, 1786. -The circumstance of being stopped by the ice proves it to have been in the winter, and therefore must inevitably have been in the winter of 1786. But this was too late a date to ferve their purpose of supplanting my claims and just rights, which I mean to maintain under the laws I have already obtained and have no doubt of fucceeding in my applications to the other affemblies when they come to fee my proofs and Mr. Rumsey's false datings. He has mentioned the obtaining part of his works from Baltimore, where I can also shew he has used the same want of candor, and it will confirm the proofs from Frederick Town.

It appears the four large cocks for his steam-pipes and works, were bespoke of Christopher Raborg, in Baltimore, by Mr. Barns, who, the better to conceal the "designed purpose of the cylinders," told him they were for the warm springs in Virginia,—perhaps a little mental reservation might cover this deviation from fact.—But Mr. Raborg had no account thereof and could not give the time with precision—though he believes they were made in the fall of 1785;—the cerificates, No. 20 and 21, which follow, prove that the time was certainly in the spring 1786. As these certificates appear to refer only to cocks made for the warm springs,

springs, I had considerable doubts about admitting them into my defence; because Mr. Rumsey, on finding that I proved them to be made in March, 1786, might (if he pleased) adhere to Mr. Barns's declaration of their being made for the warm springs and not for the steam-boat: But I am now happy in having a confirmation under Mr. Rumsey's own hand, published in Mr. Oswald's paper of the tenth instant, where he informs the public, Mr. Raborg was the person who undertook to make cocks for my steam boat, and by him I shall prove that they were finished at the time he mentioned to Mr. Fitch, viz. the fall of 1785."

Christopher Raborg's certificate is as follows:

No. 21.

This may certify, that Mr. Joseph Barns did bespeak of me four brass cocks, which he said were for the warm springs;—that being disappointed by my journeymen, I got them made by Mr. Charles Weir & Co.—said cocks I do believe were made in the fall 1785, but have no charge made of them to assertion the time with precision-this I assert, as witness my hand, at Baltimore, this 26th. day of April 1788.

CHRIST. RABORG.

The certificate of Charles Wier, who speaks with tolerable certainty of the works being made in the spring of 1786.

No. 22.

This may certify, that when I was in partnership with Isaac Causten, I made four brass cocks for Mr. Christopher Raborg, for which I received the money and charged myself with it—that my books are destroyed and I cannot exactly recollect the time of their being made, but am persuaded it was early in the spring in the year 1786—this further may certify, that I never made the exact number of four cocks for said Raborg, except only that one time. As witness my hand, at Baltimore, 26th. day of April 1788.

CHARLES WEIR.

The certificate of Isaac Causten, who ascertains upon good grounds that the said work was done and charged on the 29th. March, 1786.

No. 23.

This may certify, that I the subscriber with my partner Charles Weir, made four brass cocks for Mr. Christopher Raborg, and charged them on the partnership account—said book has since been destroyed, but from some loose papers I sound charged to Mr. Raborg on the Company's account, on the 29th. March 1786, sour brass cocks, which with other accounts I have drawn

out into my day book. Neither have I made the exact number of four cocks for him at any other time. In witness whereof I have hereunto set my hand this 26th. day of April 1788.

ISAAC CAUSTEN.

The reader will doubtless, on an examination of the two pamphlets, perceive things in their true light, and that Mr. Rumfey made no pretence to use steam till after the failure of his boat on the principles exhibited at Bath, after I had not only invested myself with an undoubted title, by exhibiting the invention to Congress in August, 1785, and had published it to the states of Virginia and Maryland, who became virtually bound to fecure me the right. Mr. Rumsey prosecuting his works in secret, and appearing at this late day, with antedated facts, is a full proof that he had no claim to the invention, nor is there any one principle of law or equity, on which he can found his preten-If he claims it on his thought Mr. Paine, Mr. Henry and Mr. Andrew Ellicott are long before him;—if on forming drafts without communicating them to the public, he must acknowledge Mr. Henry's priority: but if it is to be decided, as it certainly must, by the established mode of public declaration on record, my title is indisputable. Being, therefore, certain of the stability of my claim, founded on the modes established in justice and policy, I have not a doubt but my country will fecure and protect the right she has so deliberately granted to me. Under this security I embarked my time, my fortune and reputation, and thus embarked, I am certain I have nothing to fear; but shall depend with full confidence on a continuance of that justice which is due to the rights of the citizen, and the honor of my country.

JOHN FITCH.

Philadelphia, 10th. May, 1788.

POSPSCRIPT.



POSTSCRIPT.

SINCE this Pamphlet went to press a second edition of Mr. Rumsey's pamphlet has been printed in this city, in which a short advertisement is presixed and an extract of his own letter to General Washington which are as follow:

ADVERTISEMENT.

THE following pages are taken from a pamphlet published in Virginia, to prove the author's prior right of applying steam, to propel boats, &c. as well as to establish the principles on which he has done it, a few copies were then thought fufficient for that purpose, but as Mr. Fitch intends to answer the pamphlet, it is therefore necessary to re-publish as much of it as respects Mr. Fitch, which is done with no other variation, from the original, than to correct a few of the omissions and mistakes that were introduced into the first publication, from the hurry in which it was done, (as the author at that time could not attend the press) and was circulated with an apology annexed to the postcript, for the imperfection of the impression; of these corrections, perhaps Mr. Fitch may take some notice, if he should, such part of the old pamphlet shall be reprinted (verbatim) to convince the Public that the subject has not been varied; but a little better explained. The fophistry in Mr. Fitch's reply (should it contain what he informs me it does) is evidently calculated to make impressions, unfavourable of me, on the Public mind, and to wound the reputation of feveral respectable characters, I must therefore beg the Public's indulgence, to suspend their opinion for a few weeks, when I shall have it in my power to lay before them fuch additional statement of facts, supported by such respectable testimony, as will incontestible prove the unjustifiable steps Mr. Fitch has taken, to deprive the author of his discoveries, and to injure the reputation of fundry gentlemen.

No. 19. is added to this publication, it is part of a letter wrote by the editor to his excellency General Washington, dated the tenth of March 1785, which will shew that the editor had fixed on a method of applying steam to propel a boat before Mr. Fitch knew (from his own account of the matter) that steam had ever been made use of for any purpose whatever; how then is it possible he should have the prior right to this discovery? if it is asked, who made the most promising experiment? it would be found that my experiments two years since exceed the best he has ever

made;

made; must I then be deprived of my discoveries, which are substantial, because I endeavoured to keep them secret until perfected? justice will never suffer it, I therefore with the greatest considence look up to my countrymen for their support, according to the merits of my cause, and have the honor of subscribing myself their

most devoted humble servant

JAMES RUMSEY.

Philadelphia, May 7, 1788.

As to his advertisement I have fully proved that he made no experiment on his boat with Steam two years ago, his machinery being at that time in Frederick-town—And his boat fo far exceeding mine will also appear a wrong affertion as the greatest distance he pretends to have propelled his small boat per hour is four miles, and that appears to be mere ideal estimation; my boat, by the same force applied, I let out three miles and a quarter per hourby the log-line. All house this is departing from the merits of the dispute, but to convince the public of his affertion on this head being abfurd, I shall introduce certificates No. 24, 25, 26. As to his request of suspending the public opinion, I rest my cause on solid and fair conclusions drawn from his pamphlet, a very fafe and candid judgment may be formed of the merits of Mr. Rumsey's pretentions, it being evident that all his false affertions and false dating will never prove that two and two are not four.

Nº. 24.

These may certify, that the subscriber has frequently seen Mr. Fitch's Steam boat, which with great labour and perseverance he has at length compleated and has likewise been on board when the boat was worked against both wind and tide, with a very considerable degree of velocity by the force of Steam only. Mr. Fitch's merit in constructing a good Steam-engine and applying it to so useful a purpose will no doubt meet with the encouragement he so justly deserves from the generosity of his countrymen, especially those who wish to promote every improvement of the useful arts in America.

DAVID RITTENHOUSE.

Philadelphia, December 12th. 1787.

Nº. 25.

Having also seen the boat urged by the force of Steam and having been on board of it when in motion, I concur in the above opinion of Mr. Fitch's merits.

IOHN EWING.

Nº. 26.

From the well known force of Steam. I was one of the first of those who encouraged Mr. Fitch to reduce his theory of a Steam-boat to practise, in which he has succeeded far beyond my expectations. I am now fully of opinion that Steam-boats may be made to answer valuable purposes in facilitating the internal navigation of the United States, and that Mr. Fitch has great merit in applying a Steam engine to so valuable a purpose and entitled to every encouragement from his country and countrymen.

ANDREW ELLICOTT.

Philadelphia, December 13th. 1787.

Copy of Mr. Rumsey's Extract, No. 19.

The following is part of a letter, wrote by the editor, to his.

Excellency General Washington, dated the 10th. of March, 1785.

After mentioning that kind of machine for propelling boats which the General had feen a model of, I proceed to fay—"I have taken the greatest pains to perfect another kind of boat, upon the principles I mentioned to you at Richmond in November last, and have the pleasure to inform you that I have brought it to great perfection; it is true, it will cost something more than the other way, but, when in use, will be more manageable, and can be worked with as few hands; the power is immense—and I have quite convinced myself that boats of passage may be made to go against the current of the Mississippi or Ohio rivers, or in the Gulf Stream from the Leeward to the Windward-Islands) from sixty to one hundred miles per day. I know this will appear strange and improbable to many persons, yet I am very certain it may be performed, besides, it is simple (when understood) and is also strictly Philosophical.

The principles of this boat I am very cautious not to explain,

as it would be easily executed by an ingenious person.

The plan I mean to purfue, is to put both the machines on board of boats * built on a large scale, and then, Sir, if you would be kind enough to see them make actual performances, I should not doubt but the affemblies would allow me something handsome, which would be more advantageous to the public than to give me the exclusive right of using them.

As

^{*} There were two boats connected, in the model I exhibited at Bath in September 1787, which is the reason I speak of boats in the plural, as experiment had convinced me that a single boat would not succeed on that principle.

As to the extract of his letter to General Washington of the tenth of March, 1785, it is nothing more than a declaration that he intended something;—that even if it was steam he meant to make use of, it was a profound secret which he was then cautious not to explain. But let us take a view of this letter and I have no doubt, but from the very wording of it, that it will very clearly appear, that the utility of steam (if that was what he meant to convey) was with him at that time very doubtful and upon which he could have no kind of dependance; and holding up the idea of fecrecy fo punctually, least some artist, more ingenious than himself, should compleat a steam-boat before him, shews indubitably that he conceived it an agent at a great diftance from him and upon which he had no reliance or from which the public could then expect no advantage, and indeed I am confident that his ideas of a steam engine, (if any he had, which I much doubt) were very inferior to Melirs. Henry's, Ellicott's, Pain's, &c. in the year 1778. but as no publication to the world took place by them, they are candid enough not to claim it as an invention of theirs. But should I even go so far as to admit he had thoughts of applying steam, and that he intended exhibiting a steam-boat to General Washington, it was nothing more than an intention he held in fecret, on the 10th. of March, 1785, and even by his declarations to Governor Johnson, if they were as early as October or November, 1785, he kept it then a fecret mothing was imparted to the Public, therefore nothing due I had long before declared my intentions through Congress, and thereby invested myself with the indisputable title to my invention throughout the United States. Maryland and Virginia had virtually pledged the honor of their states to se-cure me in this right.—Virginia has since supported that honor, by cheerfully paffing a law for that purpose, and Maryland, I doubt not, as also other of the United States, will pay equal regard to justice and policy.

N. B. As the application of steam to vessels will undoubtedly claim the early attention of the world, as the least expensive and safest mode of navigation,—I doubt not but the impartial public will yet, with pleasure, secure in me those rights, for which security, had I applied on the sirst exhibition of my scheme, would have been granted without murmur or delay; but as a considence in the honor of my country, and a want of sinance, were then the preventatives, the delay certainly will not opperate now against me; as the utility of the invention more clearly appears, and thereby the attention of my country more reasonably claimed.

The

(34)

The following certificates were omitted in their proper places.

Nº. 1.

I do certify, that as I was returning with John Fitch from Neshamany meeting some time in April, 1785, as near as I can recollect the time, when a gentleman and his wife passed by us in a riding chair; he immediately grew in attentive to what I said. Some time after he informed me that at that instant the first idea of a steam-boat struck his mind.

JAMES OGILBEE.

No. 2.

An Extract of a Letter from James Scout.

You are desirous of knowing from me when the sirst thought of a Steam-boat came in your head; this I cannot tell, but this you told me, that in the month of April, 1785, you was travelling down Street road in company with Mr. James Ogilbee and Mr. Sinton passing you on Street road, that then the first thought occurred to you of a Steam-boat, and the month of May or June following you shewed me a plan of your machine on paper, this truth I shall seek no further testimony to support; 'tis too generally known; let them that doubt it come and hear more from

Your humble Servant,

JAMES SCOUT.

April 15th. 1788.

Nº. 5.

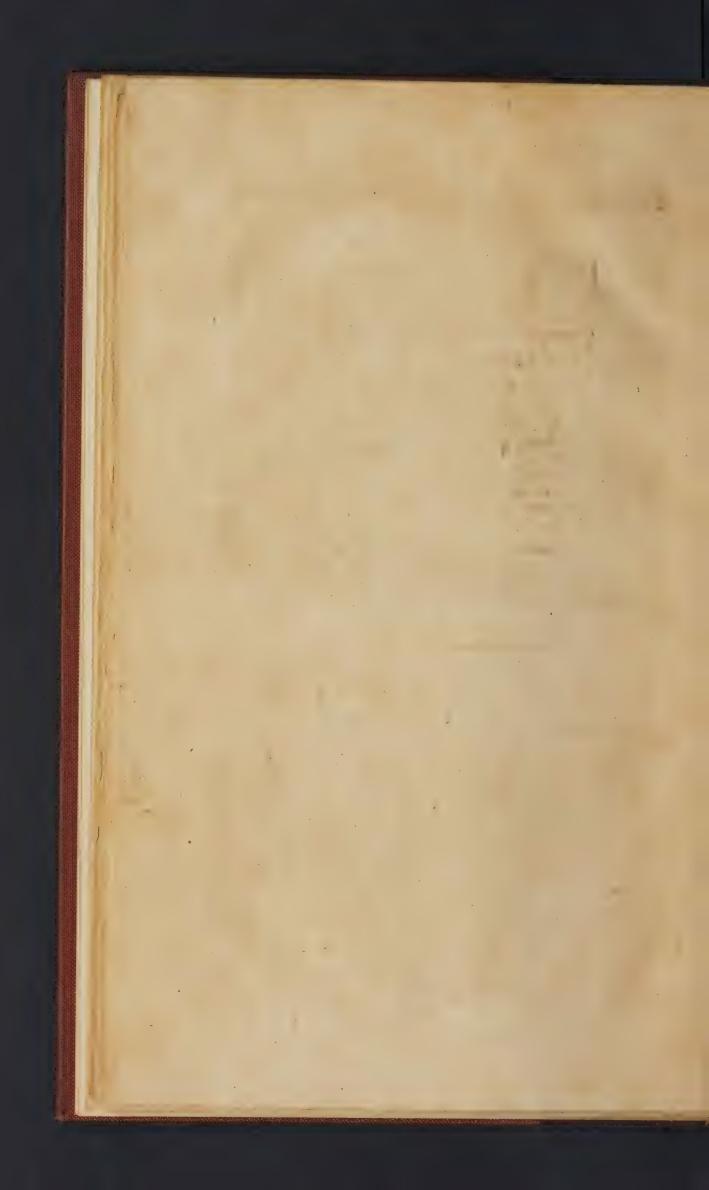
This is to certify, that Mr. John Fitch called upon William Henry, Esquire, my late husband in his life time, about two years and an half since, when Mr. Fitch shewed to him drafts and a model of a machine how to propel a boat through the water: And surther, that I have frequently heard Mr. Henry applying steam, as a mean to urge boats through the water by force of it, and that he had proposed laying a model of a machine, for that purpose, before the Philosophical Society long before Mr. Fitch called upon him.

Witness my hand, this 12th Day of May, 1788.

Test.
JNO. JOS. HENRY.

ANN HENRY.







A

PLAN

WHEREIN THE POWER OF

STEAM

IS FULLY SHEWN,

By a new constructed Machine, for propelling Boats or Vessels, of any burthen, against the most rapid streams or rivers, with great velocity. Also, a Machine, constructed on similar philosophical principles, by which water may be raised for Grist or Saw-Mills, watering of Meadows, &c. &c.

B Y J A M E S R U M S E Y, OF BERKELEY COUNTY, VIRGINIA.

TO THE PUBLIC.

HOSE who have had the good fortune to discover a new machine, or to make any material improvements on such as have been already discovered, must lay their account to encounter innumerable dissipations: they must arm themselves with patience to abide disappointments; to correct a thousand imperfections (which the trying hand of experience alone can point out) to endure the smarting shafts of wit, and, what is perhaps more intolerable than all the rest put together (on the least failure of any experiments) to bear up against the heavy abuse and bitter scoffs of ill-natured ignorance. These never fail to represent the undertaker as an imposter, and his motives the most knavish: Happy for him if he escape with so gentle an appellative as that of a madman.

This is the fate of the unlucky projector, even in the cities of Europe, where every material is at his command, and every artificer at his fervice. A candid public will then confider my

fituation;

fituation; thrown by hard fate beyond the mountains, and deprived of every advantage which that grand mover, money, produces, they will eafily conceive how my difficulties have been multiplied, which is the only reason of my not exhibiting my long promised BOAT before this; and which I hope, will be a sufficient apology. Even now, these difficulties render my machinery very incomplete; but Mr. Fitch's endeavouring to procure patents for his boat, (of which I shall speak hereafter) and having actually procured an exclusive right from two respectable Assemblies, (who had granted me the fame in the year 1784.) Before I was aware what he was about, I was necessitated to exhibit, circumstanced as I was; and my machine, with all its misfortunes upon its head, is abundantly fufficient to prove my position; which was, "That a boat might be so constructed, as to be propelled through the water at the rate of ten miles in an hour, by the force of fleam; and that the machinery employed for that purpose, might be so simple and cheap, as to reduce the price of freightage, at least, one half in common navigation; likewise, that it might be forced, by the same machinery, with confiderable velocity, against the constant streams of long and rapid rivers.

Such a machine I proposed to prepare, and such a boat to exhibit; this I have now so far performed, in the presence of so many witnesses, and to the satisfaction of so many disinterested gentlemen, as to convince the unprejudiced, and deprive even

the sceptic of his doubt.

If the reader will be pleased to turn to the annexed certificates, No. 1, 2, 3, he will be convinced that on Monday, the 3d. day of December last, my boat was propelled with near half her burthen on board, against the current of Potowmack river, at the rate of three miles in an hour, notwithstanding the bad order the machinery was then in; and by the certificates, No. 4, and 5, on the eleventh of the same month, by what little repairs I could give it, in a country where conveniences were not to be had, her progress against the same stream was encreased to four miles in an hour, with more than half her burthen on board. What additions may not be expected, if I am enabled, by the generosity of the different Assemblies to perfect my plan?

In the month of September, 1784, I exhibited the model of a boat before his Excellency General Washington, at Bath, in Berkeley county, calculated for stemming the currents of rapid rivers only, constructed on principles very different from my present one. Satisfied with the experiment of her making way against a rapid stream, by the force of the said steam, the General was pleased to give me a most ample certificate of her essicacy; and though the great utility of such a boat will appear, if ever a fair trial should be made of it: and though at the time of my exhibition it was fully my intention to complete this boat,

yet, in the course of that fall and winter, I made fuch progress in fome steam engines, which I had long before conceived would become of the greatest confequence, that I postponed it, till experiments should determine whether the steam engines could be reduced to fuch simplicity and cheapness, as to make them of public benefit; not being certain of this, though perfeelly convinced of the power, was my only reason for not mentioning this scheme also to the General, at that exhibition; and I flattered myself this invention, if it answered my expectations, (the truth whereof experiments have now established) would render my labours more extensively useful, by being equally applicable to small boats or vessels of the largest size, to shallow and rapid rivers or the deepest and roughest seas, (indeed, in large veffels, compared with the value of the freightage, the expence of the machinery proportionally decreases) I applied myfelf with unremitted attention to perfect my steam vessels, and made fuch progress in that fall and the ensuing spring, that my experiments affured me the perfection of fuch a machine was within my reach. I therefore wrote to General Washington, the 10th of March 1785, that I intended applying both powers to a boat built after the model of the one he faw at Bath; but as the difadvantages before mentioned still remained, and as I could gain truth only by fuccessive experiments, incredible delays were produced; and though my distresses were greatly encreased thereby, I bore the pelting of ignorance and ill-nature with all refignation, until I was informed fome dark affaffins had indeavoured to wound the reputation of his Excellency, and the other gentlemen who faw my exhibition at Bath, for giving me a certificate. The reflections upon those worthy gentlemen gave me inexpressible uneafiness, and I should certainly have quitted my steam-engines, though in great forwardness, and have produced the boat for which I had obtained the certificate, for their justification and my own, had not a Mr. Fitch came out at this critical minute with his steam-boat, afferting, that "he was the first inventor of steam, and that I had gotten what small knowledge I had from him, but that I had not the essentials (vide No. 18). There was no time to loofe, for had I delayed a moment, all my time, which was feveral years with the closest attention, all my expences, which had been very great, to the most of all I had, would have been irrecoverably loft; befides, had I exhibited my first boat, it would have been construed into an acknowledgment of Mr. Fitch's affertion, by producing a boat with which steam had nothing to do. These considerations compelled me to pursue the perfecting my steam-engines with increased ardor, and happy am I to inform the public, they are now fo far completed, as to manifest their valuable purposes for the navigations before-mentioned, applicable to vessels of all dimenfions, equal to forcing boats by the affiliance of poles, worked

by the same machine, against any rapid the same boats can with safety come down; and, for raising water, for grist or saw-mills watering meadows, or purposes of agriculture, cheaper than races can be dug of any considerable distance, or dams made, whilst Mr. Fitch is praying the different Assemblies for sour years longer to perfect his thing, not to mention the enormous difference there is in weight, machinery and expences, between his steam-engine and mine, (to be fatissied in this particular, the reader will be pleased to turn to the annexed papers, No. 6 and 7.)

Least it should be suggested that I borrowed my principles of Mr. Fitch (though I believe the fact to be exactly the reverse) I have been at the pains to prove incontestibly, that my idea of a boat to be worked by steam, was a considerable time before his, and that my idea had been mentioned at Kentuckey, (from whence, I am told, he brought his) by a gentleman to whom I communicated it, previous to his departure for that country. For the former, the reader will be pleased to refer to the annexed affidavits, No. 8, 9, 10, 11, 12, and to a paragraph from his Excellency General Washington's letter, in answer to mine, of the tenth of March, 1785, No. 13, and to Govenor Johnson's letter, No. 14, for the latter (that is, of my intentions being mentioned at Kentuckey,) to Mr. Michael Bedinger's affidavit, No. 15.

I have been unavoidably led to mention Mr. Fitch for my own justification, and to prove my prior right to the steam invention, and I should have faid no more, but let experience determine whose principles are foundest, had not Mr. Fitch, equally void of decency and truth, afferted "I got what fmall know-ledge I have of steam boats from him." No. 18. By the respectable testimony of his Excellency General Washington, No. 13; by Governor Johnson, No. 14, and by certificates and affidavits of many other gentlemen, hereunto annexed, I prove my idea was nearly maturated, before steam had ever entered his imagination, by his own confession to Governor Johnson; nor was my priority unknown to Mr. Fitch, for General Washington informed him, "though he thought himself not at liberty to disclose my principles, yet he would assure him his thought was not original, and that I had mentioned the application of steam to him before," (No. 14) and therefore he declined giving Mr. Fitch an introductory letter to the Assembly of Virginia. What dependence can the public put in the promifes of a man, who has knowingly and unprovokedly (for I never faw Mr. Fitch) treated an individual fo unworthily. Now I can, with truth affure the public, that Mr. Fitch's boat, so loaded with machinery, complexity and expence, (granting his machine all the properties he ascribed to it in his publication) can never be useful; because, his powers, by his own shewing, allowing for frictions and the necessary slipping of his paddles through the water,

will not propel his boat, at the rate of more than three miles in

an hour, where no current opposes.

If Mr. Fitch did get his first idea of a steam boat, from what Captain Bedinger said respecting mine, at Kentuckey, (which circumstances leave little room to doubt) and thought himself justified in making an application to his own advantage, as it was not delivered to him in confidence, surely nothing can be said in his defence, for endeavouring to rob the first inventor of his right, and, by changing persons with him, to transfer the odium of plagiarism from himself to the real proprietor.

But it is aftonishing what latitude some men will give themselves, for the wickedness of a certain ----, is, I think, without parallel. In or about the month of June, 1787, this Mr. informed me he had invented a machine to raife water, by the action of that water alone; that he was preparing a number of wheels, and other things for perfecting his machine, and begged to know my opinion of it; at the same time making the utmost professions of secrecy and friendship. To save him the expence of preparing materials for a machine, which must, from the nature of things, prove abortive, without enquiring into his plan, I convinced him, by explaining great part of mine, of the impossibility of his success. Having, by his professions, and all outward shews of religion gained so much of my considence and fecret, he foon after removed himself to Baltimore, where he caused a machine to be made on the out-work of my principles (though very imperfect, for he was not entrusted with some of the most material parts) which he exhibited to view, and had the audacity to petition the Maryland Assembly to give him an exclusive right for the emoluments of another's invention, so furreptitiously obtained; but he received the denial he so justly merited. The reader will be pleased to peruse No. 16 and 17, hereunto annexed, for the whole of this pitiful transaction.

The following Explanation will give a general idea of the principles by which fleam acts on my boat. Accurate calculations of the particular powers, feem not necessary here to be given.

In the bottom of the boat, where a kelfon should be, there is a trunk 36 feet long; the after end is open, and terminates at the stern post; the other end is closed, and the whole trunk, according to its dimensions, occupies about three-fourth parts of the length of the boat. On the closed end of this trunk stands a cylinder, two and a half feet long, from this cylinder there is a communication into the trunk, which lets water pass freely from the cylinder to the trunk, through which it is discharged by the stern. There is another communication from the bottom of the cylinder, by a tube or pipe, to the river or water under

the boat; on the top of this tube, and within the cylinder, there is a valve to admit the water from the river into the cylinder; it likewife prevents it from returning again the fame way. On the top of this cylinder there stands another of the same length, and is fixed to the under one by screws; each of these cylinders have a piston made tight, which work up and down with very little friction; these piltons are connected with each other by a smooth bolt, (they being well fcrewed to its ends) passing through the bottom of the upper cylinder; the lower cylinder acts as a pump, which draws water from the river through the tube and valve before described; the return of the piston forces it through the trunk before-mentioned, and out near the stern of the boat. The upper cylinder acts as a steam-engine, and receives its steam from a boiler under its piston, which piston is then carried up to the top of the cylinder by the steam; at the same time, the pifton of the lower cylinder is brought up to its top, from its connection with the upper pifton, by the aforesaid bolt; at which time they that up the communication from the beiler, and open another to discharge the steam for condensation; by this means the atmosphere acts upon the piston of the upper cylinder, and its force is conveyed to the piston in the lower cylinder, by the aforefaid connecting bolt; which forces the water, then in the lower cylinder, through the trunk, with confiderable velocity; the re-action whereof, on the other end of the trunk, is the power which drives the boat forward.

To prove the Use of the Trunk.

T is well known that any heavy body falling near the earth, will pass through a space of about sifteen feet in the first second of time; if the same body was acted upon in a horizontal direction, by an impulse equal to its weight, it would move in that direction the same distance in an equal time; it follows then, that the water in the trunk, will have the effect proportionable to its weight, of retarding the water from being discharged from the cylinder in too thort a time; to prevent the water, which after the stroke, moves rapidly out of the trunk, from retarding the forward motion of the boat, by its velocity.

There is a valve near the cylinder, on the top of the trunk, to admit air, which follows the water that is in motion, and gives time for the water to rife gradually into the trunk through valves, at its bottom, for that purpose; this water has little or no motion with respect to the boat, and is therefore capable of

refisting the next stroke of the engine.

Thus I have laid the principles of my boat before the public, and can affure them, by the wonderful force of steam, issuing in incredible quantities, from an entirely new constructed boiler, no doubt remains, but all the advantages which I have beforementioned,

mentioned, both with respect to navigation and the raising of water, will be produced. The one I have actually proved, by a loaded boat being propelled against a stream with the velocity of four miles in an hour, in the presence and to the great satisfaction of numerous spectators, and the other by models now ready to be produced, which admit not of contradiction.

If the public think these inventions, which must be productive of the greatest usefulness, worthy their patronage, I cannot sear but an exclusive right will be granted me by the different Assemblies of the United States, for a given number of years, which they shall think right, for the erecting these machines of my own invention, to compensate me for the trouble, for the time, for the expence and for the statigue which they have cost me.

If a committee of experimental philosophers should be appointed in each state, to examine me, it would give me infinite pleafure to attend, and convince them of the practicability of all I have proposed; of the simplicity of my machines, and of the

fmallness of their expence.

I am with great refpect,
the Public's most devoted,
and obedient humble fervant,
JAMES RUMSEY.

Berkeley County, Virginia, January 1, 1788.

Berkeley County, ff.

E, the fubscribers, Justices of the Peace for the county aforesaid, do certify, that the annexed affidavits, certificates and extracts of letters have been examined by us, and are true copies from the originals.

December 28, 1787.

JOHN KEARSLEY, CATO MOORE.

Virginia, Berkeley County, f.



I, Moses Hunter, Clerk of the faid county, do hereby certify, that John Kearsley and Cato Moore, Gentlemen, who have subscribed the above certificate, were at that time, and still are, Justices of the Peace for said county, and that all due faith and credit is and ought to be given to all probates by them so signed, as well in Justice Courts as thereout. In testimony whereof, I have hereunto set my hand, and affixed the seal of the said county, this 29th day of December, 1787.

MOSES HUNTER.

CER-

CERTIFICATES, &c.

No. 1.

Berkeley County, Vir. ff. N Monday, December 3, 1787, I was requested to see an experiment on Potowmack river, made by Mr. JAMES Rumsey's Steam Boat, and had no small pleasure to see her get on her way, with near half her burthen on board, and move against the current at the rate of three miles per hour, by the force of steam, without any external application whatever. am well informed, and verily believe, that the machine at prefent is very imperfect, and by no means capable of performing what it would do if completed: I have not the least doubt but it may be brought into common and beneficial use, and be of advantage to all navigations, as the machine is simple, light and cheap, and will be exceedingly durable, and does not occupy a space in the boat of more than four feet by two and a half.

> HORATIA GATES, Late Major General in the Continental Army.

> > No. 2.

Berkeley County, Vir. ff.

On Monday, December 3, 1787, I was requested to see an experiment on Potowmack river, made by Mr. James Rumsey's Steam Boat, and had no fmall pleafure to fee her get under way with near half her burthen on board, and move against the current at the rate of three miles per hour, by the force of steam, without any external application whatever: I am well informed, and do verily believe, that the machine at present is very imperfect, and by no means capable of performing what it would do if completed: I have not the least doubt but it may be brought into common and beneficial use, and be of great advantage to all navigations, as the machine is simple, light and cheap, and will be exceedingly durable, and does not occupy a space in the boat more than four feet by two and a half.

ROBERT STUBBS,

Teacher of the Academy in Shepherd's-Town.

Berkeley County, Vir. ff.

The Rev. Robert Stubbs, Gent. Teacher of the Academy at Shepherd's-Town, acknowledged before us, magistrates for faid county, that he did subscribe the above writing. Given under our hands, 14th. Dec. 1787.

CATO MOORE,

JOHN KEARSLEY.

No. 3.

Berkeley County, Vir. J.

Being requested to see an experiment made by Mr. JAMES Rumsey's Steam Boat, on Potowmack river, on Monday, the ad. of December, 1787, it was with great pleasure that we faw her get under way, with two tons on board, exclusive of her machinery, and move against the current at the rate of three miles an hour, by the force of steam, without any external ap--plication whatever: We are well informed, and believe, that the machinery at present is very imperfect, and by no means capable of performing what it would do if completed. We are persuaded it may be brought into common and beneficial use, and be of great advantage to all navigations, as the machine is simple, light and cheap, and does not occupy a space in the boat of more than four feet by two and a half.

ABRAHAM SHEPHERD, JOHN MORROW, WILLIAM BRICE, HENRY BEDINGER, DAVID GRAY, time of THOMAS WHITE.

CHARLES MORROW,

Berkeley County, Vir. J.

Personally appeared before us, John Kearsley and Cato Moore, Justices of the Peace for the county aforesaid, the fundry subscribers to the above certificate, who are all gentlemen of reputation, and by us supposed to be competent judges of what they have fet forth, and they acknowledge the same to be their voluntary act; we were likewise present at the exhibition, and certify the truth of the above certificate.

Given under our hands this 13th. of December, 1787.

JOHN KEARSLEY,
CATO MOORE.

No. 4.

Berkeley County, Vir. f.

Being requested to attend an experiment made by Mr. James RUMSEY with his Steam Boat, on Potowmack river, on Tuefday the 11th. day of December, 1787, it was with great pleafure we faw her advance against the current, with about three tons on board, at the rate of four miles an hour, without an oar, or any thing but the force of steam, either to generate or allilt the motion—if the machinery had been in good order, we have reason to believe, she would have gone much faster; and as the machine is light and cheap, we are well perfuaded that it may be of great advantage in navigation.

... MOSES HOGE, CORNEL. WYNKOOP, JOHN MORROW, JOHN MARK,

BENEMI SWEARINGEN, JOS. SWEARING.

N. B. We think the machinery does not weigh more than fix or feven hundred weight, and is not included in the burthen mentioned above.

Berkeley County, Vir. ff.

Personally appeared before us, two of the Justices of the Peace for the county aforesaid, the sundry subscribers to the above certificate, who are all gentlemen of reputation, and by us supposed to be competent judges of what they have set forth; and they acknowledge the same to be their voluntary act. December 13th. 1787.

CATO MOORE, JOHN KEARSLEY.

Nc. 5.

Berkeley County, Vir. f.

Being requested to see an experiment made by Mr. James Rumsey's Steam Boat, on Potowmack river, on Thursday the 11th. of December, 1787, it was with great pleasure that we saw her get under way, with upwards of three tons on board, and move against the current at the rate of sour miles an hour, by the force of steam, without any external application whatever: We are well informed, and believe, that the machinery at present is very impersect, and by no means capable of performing what it would do if completed; we are persuaded that it may be brought into common and beneficial use, and be of great advantage to navigation, as the machine is simple, light and cheap, and does not occupy a space of more than four feet by two and a half.

CHARLES MORROW, THOMAS WHITE, ROBERT STUBBS, ABRA. SHEPHERD, HENRY BEDINGER,

Berkeley County, Vir. f.

Personally appeared before us, two of the Justices of the Peace for the county aforesaid, the sundry subscribers to the above certificate, who are all gentlemen of reputation, and by us supposed to be competent judges of what they have set forth, and they acknowledge the same to be their voluntary act.

Given under our hands, this 14th. December, 1787.

CATO MOORE, JOHN KEARSLEY

Nº. 6.

Berkeley County, Vir. f.

The Affidavit of WILLIAM ASKEW, of Berkeley county, and state of Virginia, sheweth, That he was in the city of Philadelphia, as well as he remembers, in the month of September last, when he had an opportunity of seeing what is called the Steam-

Boat, faid to be constructed by Mr. Firch; on taking a view of which boat, (and from the information of a gentleman, who appeared to be concerned in the faid machine) this deponent is of opinion, that the boiler will hold five hundred gallons of water. From what he was informed, by the gentleman aforefaid, and from his own view, his opinion is, that the machinery of Mr. Fitch's Boat, on a moderate calculation, will, on its present construction weigh seven tons, exclusive of the quantity of wood necessary for the boiler. This deponent further faith, that he verily believes the machinery of Mr. Firch's steam-boat? must necessarily cost three hundred pounds.—This deponent hath lately feen the steam-boat constructed by Mr. James Rumsey, of Berkeley county, Virginia, and believes from good information, as well as his own opinion on examination, that Mr. Rumsey's steam machinery will not, on its present construction, weigh more than eight hundred pounds and may be worked with a very inconsiderable quantity of wood, or coals, perhaps not more coals in twelve hours that four bushels; and that Mr. Rumsey's boiler need have no more water, at one time, than one pint, or perhaps not fo much, to keep the machinery in fufficient motion to stem the stream of a river, sufficiently fast to be fafe with a cargo of goods. This deponent is well convinced that the whole of Mr. Rumsey's machinery may be made for twenty pounds, nor will it occupy more room in a boat that four barrels of flour.

Berkeley County, Vir. f.

This day Mr. WILLIAM ASKEW came before me, and made oath, that the above testimony as far as came within his own knowledge, is true, and so he believes is the information he received from others. Sworn before me, December 8th. 1787.

JAMES WILSON.

Nº 7.

Berkeley County, Vir. f.
To whom it may concern,

On application of Mr. James Rumsey and fundry other gentlemen, requesting my opinion, whether Mr. Fitch's or Mr. Rumsey's Steam Boat, agreeably to the present different plans of working each boat, would be of the greatest public utility; I have, at their importunities, consented, (as far as my knowledge of the matter will admit) to give my opinion, without referve, to the best of my judgment; and, as I have seen both Mr. Fitch's and Mr. Rumsey's steam-boats, with the machinery, or at least so much thereof as could be observed, by a common examination, I presume that Mr. Rumsey's plan is much the most elegible, simple and practicable. Mr. Fitch's machinery appears bulky, weighty and complicated, leaving little room in the boat in which I saw it for loading. The weight of the whole apparatus

apparatus I suppose to be five tons—whereas the whole of Mr. Rumsey's machinery, at the time of exhibiting publicly, with every apparatus complete, could not weigh more than five hun-

dred pounds.

It is obvious, therefore, that a machine weighing one twentieth only, and of small fize, comparative with the other, and by many degrees less complicated, must prove of the greatest public utility, and will be practifed in preference to the other.

I do therefore give it as my opinion, that Mr. Rumsey's plan

is to be preferred to Mr. Firch's.

Given under my hand, at Shepherd's-Town, this 6th. day of December, 1787.

HENRY BEDINGER,

Berkeley County, Vir. ff.

Captain Henry Bedinger acknowledged before us, Magiftrates for the faid county, that he subscribed the above writing. Given under our hands, this 14th. day of Dec. 1787.

> CATO MOORE, JOHN KEARSLEY,

Berkeley County, Vir. J.

We, the fubscribers, have been long acquainted with the within mentioned Capt. HENRY BEDINGER, and have ever found him a worthy honest gentleman.

HORATIA GĂTES, CHARLES MORROW, THOMAS WHITE, JOHN MARK, JOHN MORROW, ROBERT STUBBS, BENONI SWEARINGEN, JOS. SWEARINGEN, ABRAHAM SHEPHERD, JOHN KEARSLEY.

December 14, 1787.

Berkeley County, Vir. J.

The above gentlemen, who are all of good fame, subscribed the above certificate in my presence. Given under my hand, this 14th. December, 1787.

CATO MOORE.

No. 8.

Berkeley County, Vir. ff.

This day came George Rootes, before me, one of the Juftices of the Peace for the county aforesaid, and made oath, that Mr. James Rumsey informed him, in the year 1784, that he was projecting a boat to work with iteam, and the faid George has heard, and verily believes, that the faid Mr. Rumsey, from the time of his leaving the agency of the Potowmack Company, has purified his intention of perfecting his steam-engine for that purpose with unremitted attention, which the faid George is informed is now in great forwardness. Given under my hand, this 24th. day of November, 1787.

WILLIAM LITTLE.

No. 9.

Berkeley County, Vir. J.

This day came Mr. Charles Morrow, before me, one of the Justices of the Peace for the said county, and made oath, that in the beginning of the year 1785, Mr. James Rumsey told him, that by making use of steam he could raise Water for Mills, and that he would do it as soon as he had completed his steam-boat.

CHARLES MORROW.

WILLIAM LITTLE.

Sworn to, and subscribed before me, this 13th of December, 1787.

Nº. 10.

Berkeley County, Vir. J.

This day came NICHOLAS ORRICK, before me, one of the Justices of the Peace for the county aforesaid, and made oath, that Mr. James Rumsey informed him, in the year 1784, that he was projecting a boat to work with steam, and that he the said Nicholas doth know that the said Mr. Rumsey from that time has pursued his intention of perfecting his steam-engine for that purpose, and the said Nicholas has been on board of the said Rumsey's boat, when going by the power of steam, and has reason to believe it may answer a valuable purpose when completed. Given under my hand, this 24th. day of November, 1787.

No. 11.

Berkeley County, Vir. ff. This day came CHARLES Morrow, before me, one of the Justices of the Peace for the aforesaid county, and made oath, that in the course of the summer 1785, Mr. James Rumsey had a boat built near the town of Bath; that early in the fall he had her brought down the river to Shepherd's-Town, and shortly after Mr. JOSEPH BARNS was fent to Baltimore, in order to have fome machinery cast; that he then understood the boat was to be propelled by steam; that shortly after Mr. BARNS returned from Baltimore he was fent to Frederick-Town, in order to have fome other things made, agreeable to Mr. Rumsey's directions, and thinks he returned from thence about the middle of November; that the faid Charles then faw the machinery Mr. BARNS had got made, viz. a boiler, two cylenders, pumps, pipes, &c. That about the first of December it appeared to the said Charles, that the whole of the machinery was ready to be fixed to the boat, which came down to the Falls of Shanadoah for experiment, but the ice then commencing prevented it for the winter. That

That in the winter Mr. Rumsey told him he had made fundry improvements; in particular, that he had invented an entirely new constructed boiler; that the faid Rumsey sent to a forge for iron, and fet two fmiths to work, with directions how to make it; but when it was ready to be put together, he found, upon examination, that the workmanship was so badly executed, that it would not answer the purpose; he therefore concluded to try an experiment with his old boiler; and the faid Charles fays, that Mr. BARNS (Mr. Rumfey's principal mechanic) continued during the winter to execute the different improvements Mr. Rumsey had made; in the spring, 1786, the machinery was put on the boat, and the first trial made, the faid Charles being on board; that she went against the current until the steam escaped, by the then imperfectness of the machine. Upon an experiment made with the new boiler, the heat of the steam was so greatly increased, that it dissolved the soft solder, which had been thought, and before had proved, fufficient for cementing the fundry parts of fuch machines; and as hard folder was obliged to be used in the repairs, delays were necessarily created. July, 1787, Mr. Rumsey had his new constructed boiler repaired, which he, the faid Charles, conceives to be the most capital contrivance to make steam that can be invented; for when the machine is not at work, the whistling of the steam may be heard at least half a mile; and he is convinced that it does not hold more than three gallons of water; and the faid Charles further faith, that Mr. Rumsey has for several years steadily pursued his boat scheme, to the total neglect of every other kind of business which has very confiderably injured his circumstances, having Mr. Barns employed at five pounds per month, fince the year eightyfive; and that he conceives the boat to be now near her completion: And the faid Charles has not a doubt but Mr. Rumfey is equal to the task of making her perform according to his original position.

Sworn to and subscribed before me, December 8th. 1787.

JOHN KEARSLEY.

Nº. 12.

Berkeley County, Vir. If.

This day came Joseph Barns before me, one of the Justices of the Peace for the said county, and made oath, that he was employed by Mr. James Rumsey, in May, 1785, to build a boat on Potowmack river, near the town of Bath, and that he was then informed by the said Rumsey, that the boat, when sinished, was to be propelled by steam, and that he had built the boat soon after (he thinks in September) he went, by the request of Mr. Rumsey, to Baltimore, to get some machinary cast for the boat; and in October and November, in Frederick town, he

wit, all the other machinery made for an experiment by fteam; In December it was put on the boat, at Shanandoah Falls, but before it could be got ready for trial, the ice began to drive, which prevented it: Also, that Mr. Rumsey, during the winter, invented his new constructed boiler, and had it made ready to put together before the spring, but it was so badly executed, that he declined making the experiment with it, but proposed to try his old boiler: Accordingly, in April, 1786, the experiment was made, and the boat went against the current of Potowmack; but many parts of the machine being imperfect, and and some parts rendered useless by the heat of the steam, he was obliged to have it repaired, which was done at the Great Falls, and the was again tried, but failed in the repaired work, though it made many powerful strokes before it failed, and fent the boat forward with fuch power, that one man was not able to hold her. The next experiment was attempted in December, with the new constructed boiler, but the violence of the heat was so great, from the steam, that it melted the soft solder that great part of the machine was put together with, and rendered it entirely useless, until repaired with hard solder; about this time, the ice drifting, carried off the boat which the machinery was made for, and destroyed her in such a manner, that the repairing her was equal to one half the expence of building a new one: That the boat was, in the Spring, 1787, repaired, the machine also, and was ready for trial in September, when the boat moved up the river, against the current, with about two tons on board, besides the machine, at the rate of two miles per hour; but the new boiler was fo badly made, that it opened at feveral of its joints, which let great quantities of the steam escape: And the faid Barns further faith, that to his knowledge, the machine at the last trial, on December 3, 1787, was very imperfect in many parts, as the same boiler was then made use of, after receiving some repairs: It is his opinion it may be brought to anfwer very valuable purpofes, as it will be timple, cheap, light, and durable, and may be applied to a ship of the largest fize to advantage, having no external application whatever: And the faid Barns further faith, that Mr. Rumfey has, to his knowledge, injured his circumstances very much, by quitting all kinds of business to pursue the boat; that he, the said Barns, has received of the faid Mr. Rumfey five pounds per month, befides his board, from April, 1785, to the prefent time; which, in his opinion, is but a small part of the expences the said Mr. Rumsey must have been at in the profecuting his plan. His new constructed boiler must exceed every thing of that kind yet extant, as it will not hold more than twenty pints, and, in his opinion, will make more fleam than a five hundred gallon boiler in the common way; and from the observation he has made, has reason to believe, that fix bushels of good coals will ferve it for twelve hours. The

The weight of the present machine is about seven hundred pounds, and will not occupy more space than four barrels.

Sworn before me, this 10th. December, 1787.

CATO MOORE

. M. Breiter Control of the control of

Nº, 13. A PARAGRAPH from GENERAL WASHINGTON'S Letter, in answer to mine of the 10th, of March, 1785.

"It gives me much pleasure to find by your letter, that you are not less sanguine in your Boar Project than when I faw you in Richmond, and that you have made such further discoveries as will render them more extensively useful than was at first expected. You have my best wishes for the success of your plan."

No. 14.

Nº. 14.

Annapolis, December 18, 1787.

In compliance with your request, I mention the principle facts and circumstances with which I am acquainted respecting your Steam Engine, and your expectation of its effect in boat vavigation. I was entirely ignorant of the principle on which you were to gain your power, and your manner of applying it, till our return from the Great Falls together, in October or November, (but I think in October) 1785, when you told me that you relied on steam for your first power, and wished me to promote you, having cylenders cast at my brother's and my works; the attempt did not fucceed—I confidered myself; under an obligation to secrecy till in the progress of making copper cylenders in Frederick-town some time after, when I found, that the designed purpose of the cylender was a subject of pretty general conversation.

Being on the committee appointed to confider and report on Mr. Fitch's petition, I thought it my duty to mention what was in my memory, of your telling me of your having communicated your principle to General Washington, as I thought, though perhaps mistakenly, at the time your model and experiment were exhibited before the General; and, with the approbation of the committee, wrote to the General on the subject: His answer, now before me, is to the effect, that "At that time, September 1784, nothing was intimated of steam: That the November following, in Richmond, you spoke to him of the effect of steam, and of the conviction you were under of the usefulness of its application for the purpose of inland navigation," but the General seems to have thought it an immatured idea, that he did not then imagine you relied on.

Mr. Fitch having often mentioned the time (I think April, 1785) when the idea first struck him, and yours being prior, the committee committee could not report in favour of Mr. Fitch. The Gen. added in his answer, "It is proper for me herewith to add, that some time after this Mr. Fitch called on me, in his way to Richmond, and explaining his scheme, wanted a letter from me introductory to the Assembly of this (Virginia) state; the giving of which I declined, and went so far as to inform him, that tho' I was enjoined not to disclose the principles of Mr. Rumsey's discovery, yet, would venture to assure him, that he thought of applying steam was not original, but had been mentioned to me by Mr. Rumsey."

I esteem myself no way competent to decide on Philosophical or mechanical principles, but if you can simplify the steamengine, render it cheap, and apply its powers to raise water in great quantities, for the purposes of agriculture and water-works of all kinds, or apply the powers more immediately, as has been much the subject of conversation between us at times, every man may easily perceive a vast field of improvement will thereby be opened, which I most sincerely with you may largely

reap the good fruits of.

I am, Siz, your most obedient servent,

THOMAS JOHNSON.

Nº. 15.

Berkeley County, Vir. f.

This day came Michael Bedinger, before me, one of the justices of the Peace for the said county, and made oath, that Mr. James Rumsey informed him, in, or before the month of March, 1784, that he was of opinion that a boat might be constructed to work by steam, and that he intended to give it a trial, and mentioned some of the machinery that would be necessary to reduce it to practice; And the said Michael surther saith, that he set out for Kentuckey country immediately after in order to survey some lands, and resided there upwards of eighteen months, and that during the time of his stay there, he frequently mentioned Mr. Rumsery's boat scheme: He believes that he also mentioned, that it was to be wrought by steam.

The above was voluntarily fworn to before me, by Captain

Bedinger, who is a gentleman of reputation.

November 28, 1787.

JOHN KEARSLEY.

We, whose names are hereunto subscribed, certify, that the within mentioned Michael Bedinger is a gentleman of reputation and veracity.

HORATIA GATES, THOMAS WHITE, JAMES KERNEY, JOHN MORROW, JOSEPH MITCHEL

CHARLES MORROW, JOHN MARK, PHIL. PENDLETON, ROBERT STUBBS.

C

Nº. 16.

Berkeley County, Vir. J.

To whom it may concern.

Given under my hand, this 13th December, 1787. CHARLES MORROW.

Teft. DAVID GRAY, JOSEPH BARNS.

Nº. 17.

Berkeley County, Vir. J.

This day came Joseph Barns before me, one of the Justices of the peace for the faid county, and made oath, that Mr. James Rumsey informed him, the year 1785, that he had contrived a very fimple, cheap machine, to raife water by fleam and the power of the atmosphere. That some time (he thinks) in the month of June, 1787, a certain——, of Baltimore-Town, formerly of Shepherd's-Town, did by some means, though it was not customary, infinuate himself so as to be several times admitted into the shop where the steam-engine for the boat was making, and then almost finished; and the said Barns further faith, he heard Mr. Rumsey inform the said - of his intention of raising water by steam, to work mills, as soon as he had accomplished his boat scheme, and then proceeded to explain to the faid — the principles by which water might be raised, and also explained fundry parts of the machinery, he believes all, except some valves and the opening and shutting of cocks by the machinery at the proper times; and the faid Barns well remembers, that during Mr. Rumfey's explanations, the faid - feemed much aftonished, and declared that he never knew till then that the atmosphere had any weight, or that steam

had fuch power; and that he then clearly faw the reason that a machine he had some time before invented to raise water, would not answer the purpose; and that it was so foolish a plan, he said, he was ashamed to explain it, And the said Barns surther saith, that Mr. Rumsey gave the said — a copy of his calculations of the force and velocity of water from under different heads, which he informed the said — would enable him to see the propriety of his calculations for raising water, by which he might estimate the quantity necessary to work a mill.

Berkeley County, Vir. J.

The second of the second

We, the fubscribers, have been long acquainted with Mr. Jofeph Barns, and ever found him to be a worthy honest man, and a man of truth.

ROBERT STUBBS, HEN. BEDINGER, ABRA. SHEPHERD, JOHN MARK, JOHN MORROW, CHARLES MORROW, BENENI SWEARINGEN, CORNEL WYNCOOP, THOMAS WHITE, JOS. SWEARINGEN.

Berkeley County, Vir. J.

The above gentlemen, who are all of good fame, fubscribed the above certificate in my presence.

CATO MOORE.

* * The calculations alluded to in this affidavit were at first intended to be printed, its length determined the author to decline it—if — should deny he had such a copy, it will be produced for the satisfaction of the public.

Nº. 18.

The underwritten is a paragraph of a letter written from a Mr. Daniel Buckley, living near Philadelphia, to a gentleman of Berkeley county, Virginia, and "Dr. Mc Mahon," who Mr. Buckley is so concerned for, is a partner with Mr. Rumsey in his steam-boat. 'Tis copied and annexed to prove how busy Mr. Fitch has been in calumny, and how easily he found credit and propagators. Should he incline to affert hereafter, what credit he will deserve has been so clearly proved, that suture impositions may be avoided; and those who spread a slander they do not believe, deserve the contempt of all honest men.

(20)

"Please to give my fincere respects to Doctor Me Mahon and his worthy lady—he is my most particular acquaintance, and truly I am forry he has been deluded by a person, who I have reason to believe is a deceiver, as Mr. Fitch, of Philadelphia, says, Mr. Rumsey got what small knowledge he had of steam from him, but he retained the essentials, without which, he says, Mr. Rumsey cannot succeed."

We do certify that the above paragraph was taken from the aforesaid letter, and copied in our presence.

GEORGE ROOTES, CHARLES MORROW.

The person's name omitted in republishing Mr. Rumsey's pamphlet; is, because he has no connection with me, or my project, being a stranger, and probably innocent of the charges alledged.]



